

THE  
American Museum of Natural History

CENTRAL PARK, NEW YORK CITY.

(77th Street and 8th Avenue.)

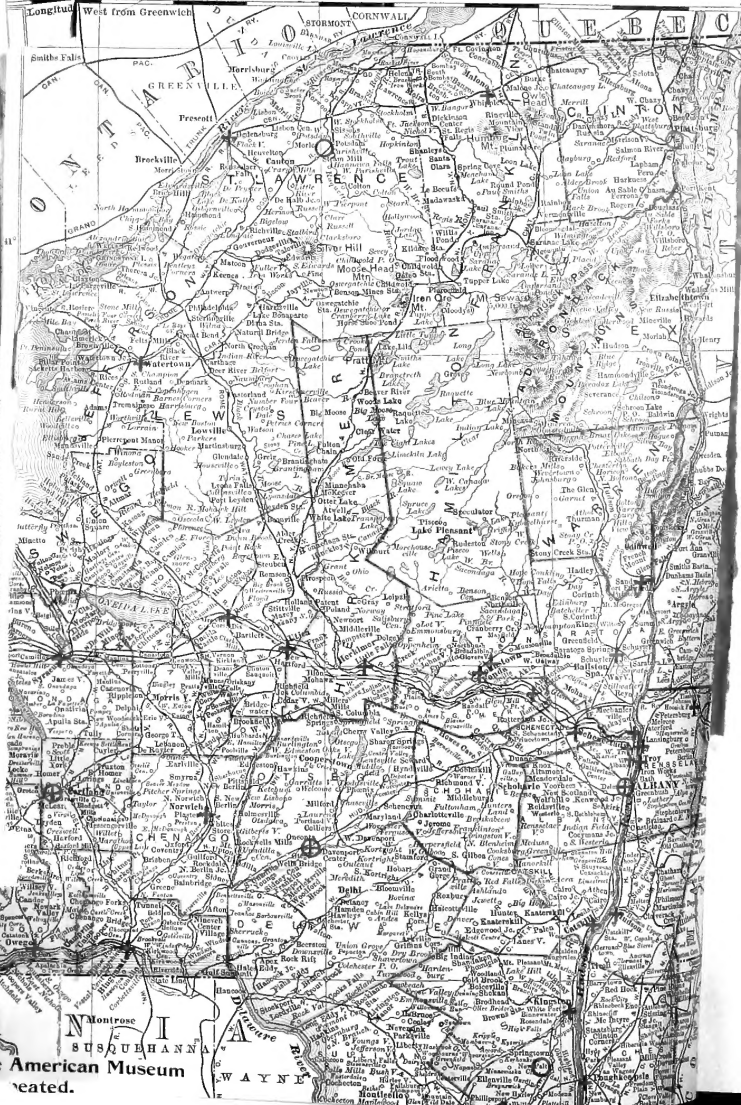
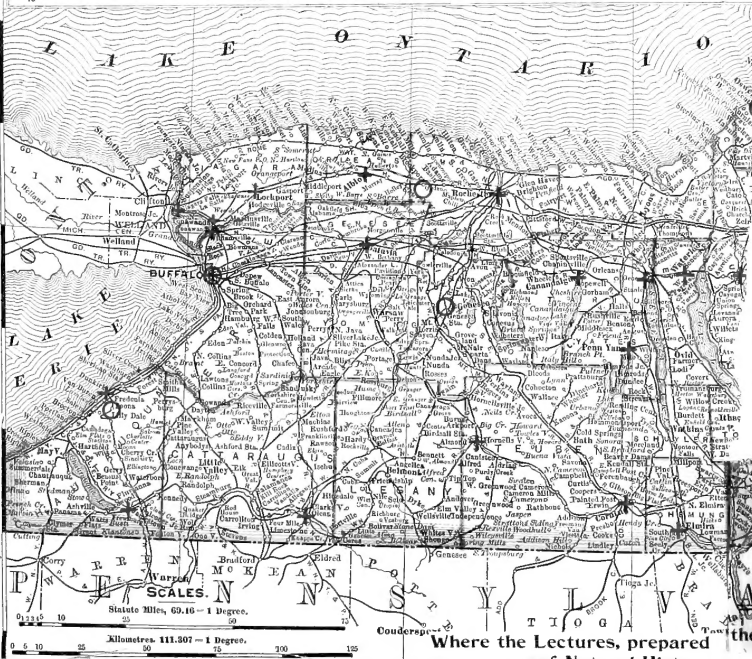
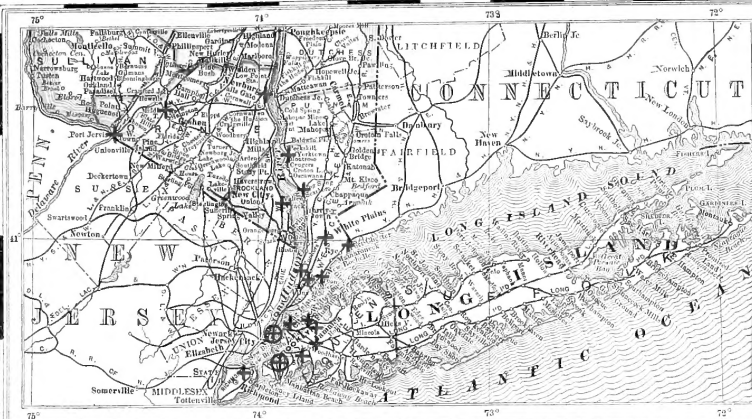


ANNUAL REPORT OF THE PRESIDENT,  
TREASURER'S REPORT, LIST OF ACCESSIONS,  
ACT OF INCORPORATION,  
CONTRACT WITH THE DEPARTMENT OF PUBLIC PARKS,  
CONSTITUTION, BY-LAWS AND LIST OF MEMBERS  
FOR THE YEAR 1896.

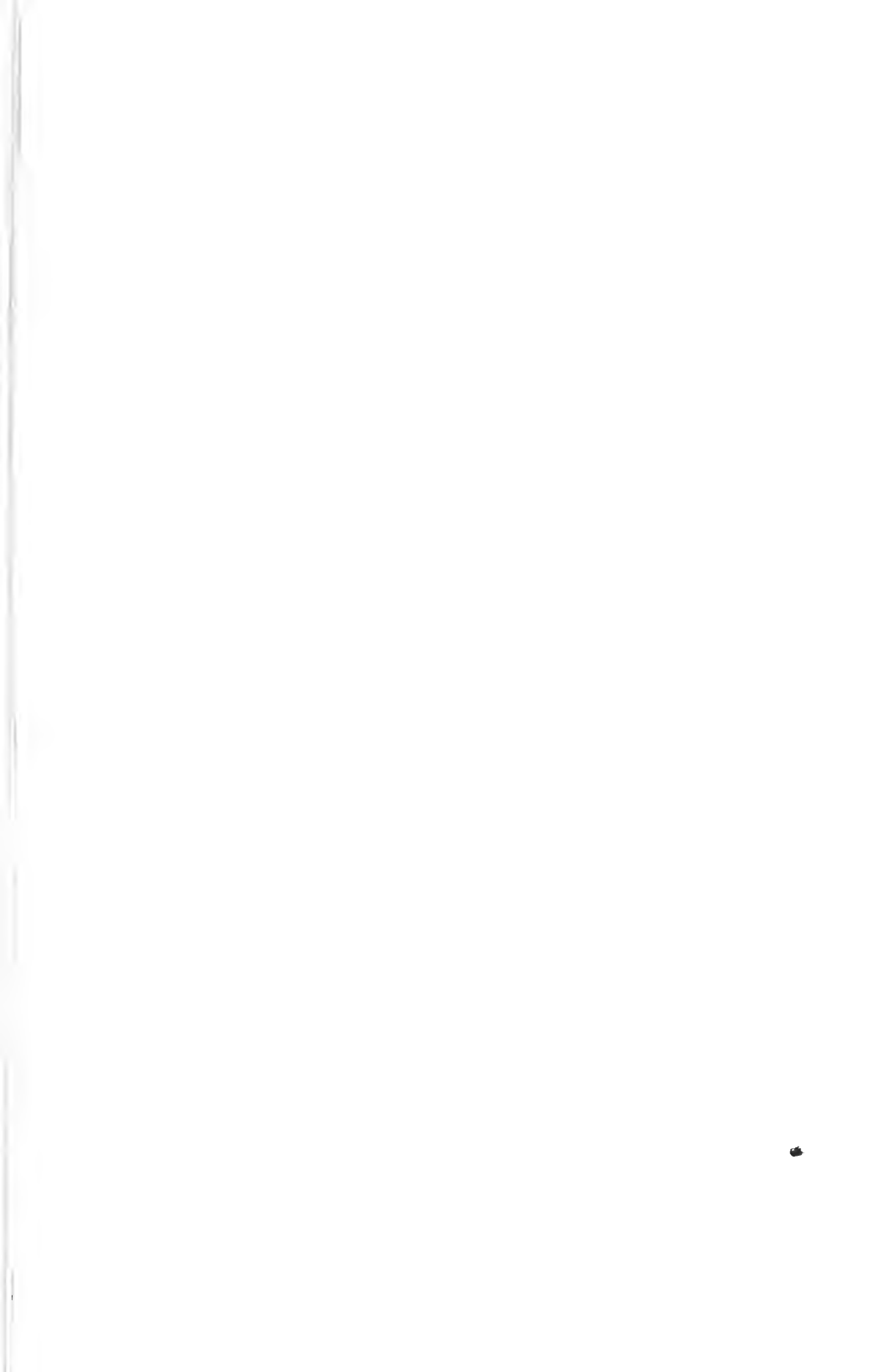
PRINTED FOR THE MUSEUM.







Where the Lectures, prepared at the American Museum of Natural History, are repeated.



West from Greenwich



the American Museum  
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AMERICAN MUSEUM OF NATURAL  
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FOR THE YEAR 1896.



NEW YORK:  
PRINTED FOR THE MUSEUM.

1897.

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NO. 111 JOHN STREET  
NEW YORK

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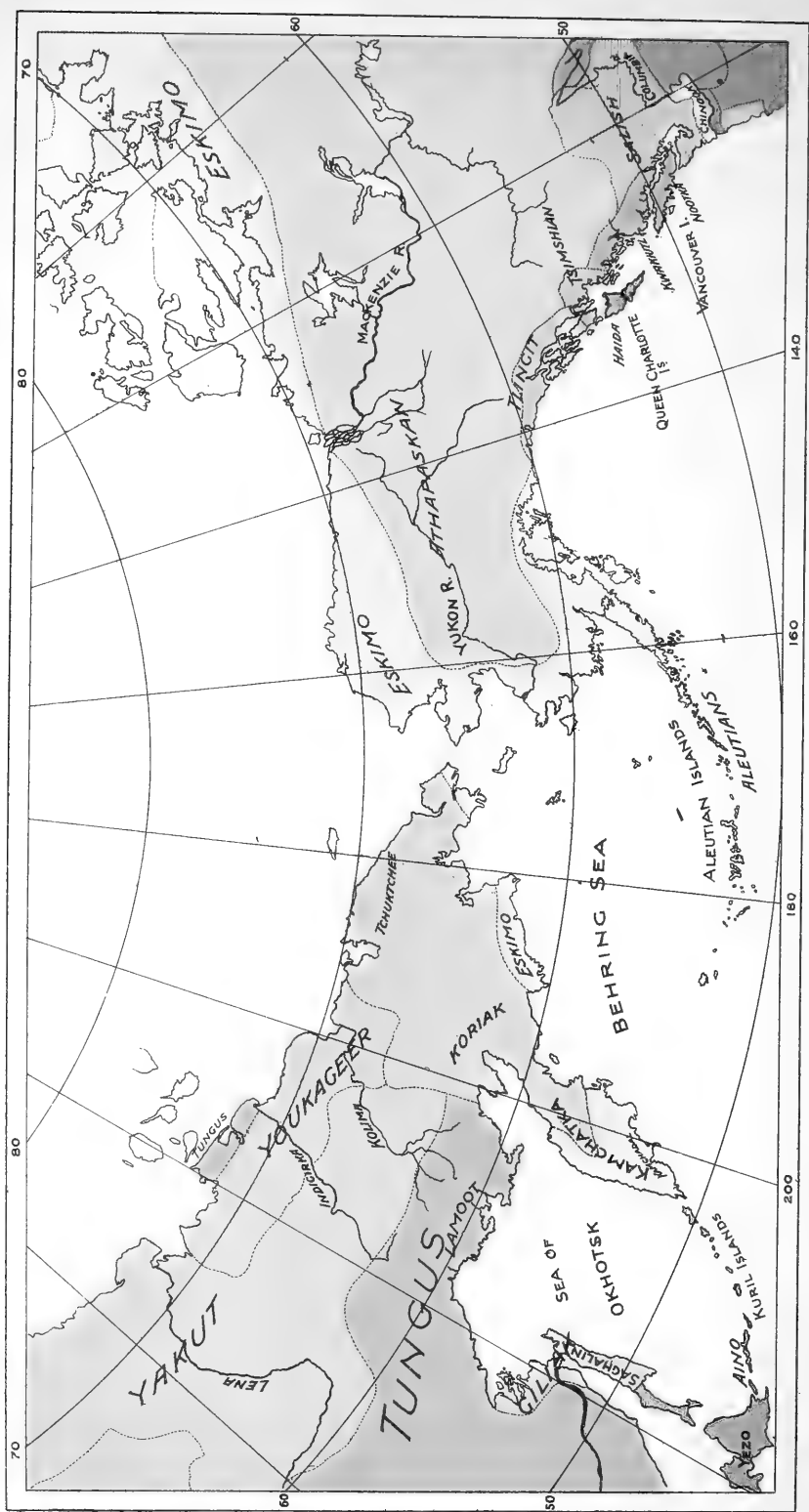
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MAP SHOWING THE LOCATIONS OF THE TRIBES INHABITING THE COASTS OF THE NORTH PACIFIC OCEAN.



## TWENTY-EIGHTH ANNUAL REPORT.

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*To the Trustees of the American Museum of Natural History of the City of New York :*

I have the pleasure to submit herewith my Annual Report for the year ending December 31, 1896.

DEPARTMENT OF PUBLIC INSTRUCTION.—In the last report mention was made of the important growth of the lecture system of the Museum. Pleasing as was the progress made in 1895, it gives me sincere pleasure to note a great increase of public interest during 1896. Prof. Albert S. Bickmore, the Curator in charge, gave the usual courses of lectures on Saturdays to the teachers of the public schools of this city and Brooklyn, and visited the normal schools throughout the State, in compliance with the provisions of the contract with the State Superintendent of Public Instruction. The large audiences in attendance at the lectures Saturday mornings necessitated repeating each lecture, forming two courses, known as Sections A and B. Professor Bickmore also gave the usual number of free lectures to the public on New Year's Day, Washington's Birthday, Thanksgiving Day and Christmas, and a Spring and Autumn course of four lectures each to the members of the Museum. Under the terms of Chapter 362 of the Laws of 1895, the Curator, by the joint agreement of the Trustees and the State Superintendent of Public Instruction, arranged and directed the system for providing the common schools of the larger cities of the State with the apparatus and lantern slides requisite for the repetition of the lectures delivered at the Museum to the teachers of the public schools. Attention is directed to the map appended to this report, which shows the places in this State where the lectures are repeated. The Museum also furnished for the use of the Curator a suitable room for the instruction of school superintendents in the use of the

apparatus. The Curator is in receipt of letters asking how the slides, apparatus and text of the lectures delivered by him to the teachers of the public schools can be secured for use in other cities. The owners of large manufacturing establishments have also expressed the desire to have this means of entertaining and instructing their employees. The Museum collections are a valuable adjunct of the lectures delivered to the teachers, and are frequently made use of for reference after the lecture.

The popularity of the lectures given by Columbia University in coöperation with the Museum is demonstrated by the increased attendance. These courses were delivered on Saturday evenings, and consisted of sixteen lectures, which attracted audiences aggregating 8500 persons. These lectures were more or less scientific in character, and the fact of such large attendance plainly shows the trend of popular interest in this direction.

Three lectures were also presented under the auspices of the Linnæan Society.

The lectures given under the direction of the Board of Education of the city have achieved great success, if measured by attendance. Dr. Henry M. Leipziger, Ph.D., Superintendent of Lectures, states that 18,200 persons attended the twenty lectures. Tuesday night of each week was assigned for this series, and their popularity is attested by the fact that on each evening hundreds of persons were unable to gain admission.

While this series covered a large range of subjects, many of the lectures pertained to natural history. I regard this connection with the Board of Education as of great importance in advancing the cause of popular education, and in extending the usefulness of the Museum to the public. It is only a few years since the lectures at the Museum were limited to those given to the teachers of the public schools by Professor Bickmore; within recent years the system of lectures has been extended in coöperation with the other institutions, as noted in this report, until it forms an important and attractive feature of the work of the Museum.

The use of the lecture hall was also given to the Board of Managers of the New York Botanical Garden on two occasions.

On April 14th the New York Microscopical Society was granted the use of one of the halls for their Seventeenth Annual

Exhibition; and on March 26th the New York Academy of Sciences received the same privilege on the occasion of the Third Annual Reception of that body. A special reception was tendered October 23d by the Trustees to the guests in attendance at the Sesquicentennial Celebration of Princeton University; and on November 30th the members of the Museum were invited to a view of the collections and of the New Halls of Anthropology and Vertebrate Palæontology.

While it has not been customary in preceding reports to incorporate a list of the lectures, the important growth of this work I believe justifies an enumeration of the lectures given during the year, and I therefore append a statement of the several series, which were in most instances illustrated with stereopticon views.

The following are the lectures delivered to the teachers of the public schools by Professor Bickmore, in accordance with the terms of the contract between the Museum and the State Superintendent of Public Instruction.

*Spring Course.*

- Lecture 188.—The Connecticut Valley and the White Mountains.
- “ 189.—Coast of New England and the St. Lawrence River.
- “ 190.—Pennsylvania, Virginia and the District of Columbia.
- “ 191.—The Mississippi Valley and the Southern States.
- “ 192.—The Rocky Mountains and the Great Basin.

*Autumn Course.*

- Lecture 193.—The Yellowstone National Park.
- “ 194.—Alaska and British Columbia.
- “ 195.—California and the Yosemite Valley.
- “ 196*a*.—Northern and Central Mexico.
- “ 196*b*.—Southern Mexico.

PROF. ALBERT S. BICKMORE'S COURSE TO MEMBERS OF THE MUSEUM.

*Spring Course, 1896.*

- Feb. 4.—Niagara Falls.
- “ 11.—The Connecticut Valley and the White Mountains.
- “ 17.—Coast of New England and the St. Lawrence River.
- “ 25.—Pennsylvania and the District of Columbia.

*Fall Course, 1896.*

- Oct. 29.—The Yellowstone National Park.
- Nov. 5.—Alaska and British Columbia.
- “ 12.—California and the Yosemite Valley.
- “ 19.—Mexico.

It is estimated that more than 23,000 persons attended the combined lectures to teachers, members and to the public on holidays.

## COLUMBIA UNIVERSITY COURSE, 1896.

Jan.	4.—In Nature's Laboratory....	} ... Ferdinand G. Weichmann, Ph.D.
"	11.—Sugar.....	
"	18.—Household Chemistry.....	
"	25.—".....	
Feb.	1.—The Races of Man.....	} ..... Dr. Franz Boas.
"	8.—Languages.....	
"	15.—Primitive Art.....	
"	22.—Primitive Mythology. ....	
"	29.—Primitive Society.....	
Mar.	7.—Spring Flowers.....	} ..... Mr. Cornelius Van Brunt.
"	14.—Summer Flowers.....	
"	21.—Autumn Flowers.....	
"	28.—Cultivated Flowers.....	
Dec.	5.—The Rocky Mountains.....	Prof. James F. Kemp.
"	12.—The Mountains of Alaska.....	Dr. C. Willard Hayes.
"	19.—The Cascade Range.....	Mr. Bailey Willis.
"	26.—The Sierra Madre of Mexico.....	Mr. H. M. Wilson.

## NEW YORK BOTANICAL GARDEN LECTURES, 1896.

Apr.	11.—Natural Scenery and Landscape Gardening.....	L. H. Bailey.
"	18.—Illustrations of the Desert Flora of Southern California.....	Fred. V. Coville.

## LINNÆAN SOCIETY LECTURES.

Jan.	14.—The Indians of Vancouver Island.....	Dr. Franz Boas.
"	28.—The Origin and Distribution of North American Mammals..	W. B. Scott, Ph.D.
Mar.	3.—Two Months in Greenland.....	Wm. Libbey, Sc.D.

## BOARD OF EDUCATION LECTURES, 1896.

Jan.	8.—Through the Heart of Asia.....	Mr. Thos. G. Allen, Jr.
"	15.—Japan and the Japanese.....	Mr. Frank R. Roberson.
"	22.—The House We Live In.....	Dr. F. A. Lyons.
"	29.—New things we have learned about.....	Mr. Cyrus C. Adams.
Feb.	5.—Colds: their prevention and treatment....	Dr. Wendell C. Phillips.
"	12.—Pictures from Hindoo life.....	Mr. George N. Thomssen.
"	19.—Fish and Fisheries .....	Dr. Bashford Dean.
"	26.—Constantinople .....	Mr. J. L. Hurlbut.
Mar.	4.—City of Washington.....	Mr. C. H. Payson.
"	11.—Nuremberg.....	Mr. F. A. Hopkins.
"	18.—Life in Mexico.....	Mr. Wm. Niven.
"	25.—Masterpieces of Art.....	Mr. A. T. Vanlaer.
Oct.	27.—The debt of the 19th Century to Egypt. }	Prof. W. H. Goodyear.
Nov.	3.—The debt of the 19th Century to Greece. }	
"	10.—The debt of the 19th Century to Rome. }	
"	17.—Manhattan Islands and the Highlands.....	Mr. G. F. Greene.
"	24.—The Catskills and Adirondack Mountains.....	Mr. E. H. Cook.
Dec.	1.—The Lakes of Central New York and the Erie Canal.....	Mr. S. T. Willis.
"	8.—Niagara and the St. Lawrence.....	Mr. T. C. McClelland.
"	15.—Coal.....	Prof. J. J. Stevenson.

RECEPTIONS.—April 14th, Seventeenth Annual Reception of the New York Microscopical Society. March 26th, Third Annual Reception of the New York Academy of Sciences. October 23d, Special Reception to the Guests of the Princeton Sesquicentennial Anniversary. November 30th, Regular Reception to the Members of the Museum.

PUBLICATIONS.—Vol. VIII of the Bulletin was issued during the year. A number of plates were prepared for the Memoirs, but it was not possible to provide for the publication of Memoir No. III before the close of the year. It is a noteworthy feature of the Bulletin that it contains, for the first time, several papers from the Department of Anthropology, and it therefore forms the first volume in which every department is represented, as shown by the following list of articles comprised in the volume, arranged by departments.

#### DEPARTMENT OF GEOLOGY, MINERALOGY, ETC.

Description of a New Genus of Fossil Brachiopod from the Lower Helderberg Limestones. By R. P. Whitfield (pp. 231, 232).

Notice and Description of New Species and a New Genus of Phyllocaridæ. By R. P. Whitfield (Plates XII–XIV, pp. 299–304).

Catalogue of Meteorites in the Collection of the American Museum of Natural History, to July 1, 1896. By E. O. Hovey (pp. 149–156).

The Chazy of Lake Champlain. By Ezra Brainerd and Henry M. Seely (pp. 305–315).

#### DEPARTMENT OF MAMMALOGY, ORNITHOLOGY, ETC.

Alleged Changes of Color in the Feathers of Birds without Molting. By J. A. Allen (pp. 13–44).

Note on *Macrogeomys cherriei* (Allen). By J. A. Allen (Plate I, pp. 45–46).

On Mammals Collected in Bexar County and vicinity, Texas, by Mr. H. P. Attwater, with Field Notes by the Collector. By J. A. Allen (pp. 47–80).

Descriptions of New North American Mammals. By J. A. Allen (Plates X and XI, pp. 233–240).

List of Mammals collected by Mr. Walter W. Granger, in New Mexico, Utah, Wyoming and Nebraska, 1895–'96, with Field Notes by the Collector. By J. A. Allen (pp. 241–258).

On Mammals from the Santa Cruz Mountains, California. By J. A. Allen (pp. 263–270).

The Changes of Plumage in the Dunlin and Sanderling. By Frank M. Chapman (pp. 1–8).

On the Changes of Plumage in the Snowflake (*Plectrophenax nivalis*). By Frank M. Chapman (pp. 9–12).

Notes on Birds observed in Yucatan. By Frank M. Chapman (pp. 271–290).

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

The Cranial Evolution of *Titanotherium*. By Henry Fairfield Osborn (Plates III and IV, pp. 157-198).

Species of *Hyracotherium* and allied Perissodactyls from the Wahsatch and Wind River Beds of North America. By J. L. Wortman (Plate II, pp. 81-110).

*Psittacotherium*, a Member of a New and Primitive Suborder of the Edentata. By Dr. J. L. Wortman (pp. 259-262).

## DEPARTMENT OF ANTHROPOLOGY.

A Table of the Geographical Distribution of American Indian Relics in a Collection exhibited in the American Museum of Natural History ; with explanatory Text. By A. E. Douglass (pp. 199-220).

The Temple of Tepoztlan, Mexico. By M. H. Saville (Plates V-IX, pp. 221-226).

A Rock Painting of the Thompson River Indians, British Columbia. By James Teit. (Edited by Franz Boas, pp. 227-230).

## DEPARTMENT OF ENTOMOLOGY.

Critical Review of the Sesiidæ found in America, north of Mexico. By William Beutenmüller (pp. 111-148).

Transformations of some North American Hawk-moths. By William Beutenmüller (pp. 291-298).

Several papers are ready for the Memoirs, and a number of plates are prepared, and it is hoped that the memoirs written by Dr. Bandelier, describing his researches in Peru while in the service of the Museum, may be published during 1897.

The number of articles presented for publication during 1897 is far in excess of the funds available, and several thousand dollars could be advantageously used in this direction. This one feature is a suggestive commentary on the rapid expansion of the Institution, and its growing influence among the important natural history museums of the world.

The copies of the early annual reports are nearly exhausted, as well as parts of Volumes I and III of the Bulletin, and it will be necessary before another year to reprint these issues in order that the Librarian may respond to the frequent requests for our publications from other societies.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE ZOÖLOGY.—This department, under the charge of Prof. R. P. Whitfield and his assistants, Drs. Gratacap and Hovey, has made very satisfac-

tory progress. The work of tabulating and cataloguing the type-specimens of the Hall Collection has been industriously carried on, and enough matter is now ready to fill 170 pages of the Bulletin. The work thus far has developed the presence of a larger number of type specimens than was expected, and indicates the existence of nearly double the number first estimated.

A list of the Meteorites in the Museum has been compiled by Assistant Curator Hovey, and was published in the last volume of the Bulletin. This discloses the extreme poverty of the Museum in this group of objects as compared with many of the museums in other countries; the contrast is so great that I cite some of the instances. Our Museum possesses specimens representing 25 falls; while the British Museum has specimens representing 444; Budapest National Museum, 306; Vienna, 498; Paris Natural History Museum, 401; and the U. S. National Museum, Washington, 377. A similar unfavorable showing is made when the number of these objects is compared with those owned by various other institutions and by private collectors, and I trust that means may be forthcoming in the near future which shall enable the Trustees to provide for this deficiency.

The need of a change of location for the mineral collection has become manifest. The portions of the wing now occupied by these objects should be assigned to the collections of shells and invertebrate zoölogy, and the adjoining hall in the new west wing should be used to better display the mineral specimens, many of which are deposited in drawers, and consequently inaccessible to the visitor, except on application to the Curator. In noting this condition, I realize the advantage of a proper display of the Gem Collection, and the superb group of objects forming the exhibit from the Copper Queen Consolidated Mining Company. There are not enough cases to properly exhibit the entire collection, and the specimens are very much crowded. This condition will disappear, however, as soon as the cases for the new wing are completed.

One of the most valuable and interesting donations is a collection of various fossils from Jamaica, W. I. Some of these are of very remarkable type, and will form the basis for very valuable contributions to the Museum publications. These specimens are

the gift of Mr. Francis Child Nicholas, one of the Museum's most ardent friends.

**GEM COLLECTION.**—This collection has been entirely reorganized by eliminating from the Morgan Collection all the material donated by other parties, and such as had been added to this group of minerals from the Museum material. This arrangement leaves the J. Pierpont Morgan Collection by itself in the eastern case, and the other objects in the western case. The change has resulted in the formation of virtually two collections, as most of the forms are repeated in the second collection. The separation of the collection of gems has enabled the Curator to better display the material, and for this purpose the cases were furnished with new and larger velvet pads.

It is proper that I should make a detailed reference to the many important and superb additions made by Mr. J. Pierpont Morgan during the year.

- One cut Amethyst, Deer Hill, Me.
- “ “ Rabun Gap, N. C.
- “ Iolite, Haddam, Conn.
- “ Yellow Beryl, Coosa Co., Ala.
- “ “ green Beryl, New Brunswick, Me.
- Two crystals, yellow green Beryl, “ “ “
- One cut green blue Sapphire, Montana.
- “ Ruby Sapphire, Alexander Co., N. C.
- “ Diamond crystal, South Africa.
- “ Green Tourmaline, Mt. Mica, Paris, Me.
- “ Deep brown “ “ “
- “ Large Topaz, Cheyenne, Colo.
- “ Spheue, Tilly Foster Mine, Putnam Co., N. Y.
- “ Williamsite, Lancaster Co., Pa.
- “ Turquoise, Los Cerillos, N. Mex.
- One large facettted Quartz Ball, Madagascar.
- Twelve Unio Pearls, Bahama Islands.
- One cut Fire Opal, Queretaro, Mexico.

The American Turquoise Co., of this city, has donated cut stones, uncut material and nodules of turquoise.

Mr. F. C. Nicholas has given a collection of various kinds of shells from Jamaica, and through his efforts a lot of duplicate shells were donated by Lady Henry Arthur Blake, wife of the Governor of Jamaica, W. I.

A list of these and other accessions received by purchase, exchange and donation is incorporated in another portion of this report.



DEPARTMENT OF MAMMALOGY, ORNITHOLOGY, HERPETOLOGY AND ICHTHYOLOGY.—Prof. J. A. Allen is in charge of this department, having as assistant curator Mr. Frank M. Chapman, and Mr. John Rowley as chief taxidermist. While the amount of material received falls below the average for recent years, many valuable specimens have been added, mainly through donations. For want of means no birds were purchased during the year and but few mammals, and these almost wholly for exhibition.

Mr. Chapman's expedition to Yucatan, and the Peary expedition to Greenland, yielded good returns, but the collections derived from Museum expeditions have been smaller than usual.

A small number of reptiles and fishes have been received, the latter mostly from the Aquarium at Battery Park.

The schedules subjoined to the curator's report may be summarized as follows :

*Mammals*.—Total number received, 625, of which 288 were acquired through donations, 77 by exchange, 130 through Museum expeditions, and 93 by purchase.

*Birds*.—Total number of specimens received, 1725 skins and 570 eggs ; 1325 skins and most of the eggs were presented ; 21 were acquired by exchange, and 383 through Museum expeditions.

Additional facilities have been provided for storage of the study collections ; the exhibition and study material is in safe condition and free from museum pests.

During the year about 100 mounted specimens were added to the exhibition collection of North American mammals, and almost this entire collection has been supplied with fresh labels. To complete this collection many specimens are still needed, to obtain which will require a liberal provision of means for carrying on the work, which will necessarily extend over a number of years. The smaller mammals are already either in the possession of the Museum or can be readily obtained, and quite rapidly added to the collection. The larger animals, however, can only be acquired slowly, and at large expense. There are still lacking specimens of the Wood Bison, of two species of Bighorn Sheep, of three or four species of the Deer tribe, and of three or four large

and very striking forms of the Bears of the Rocky Mountain region and the Northwest Coast. Also a number of Wolves, Foxes and Wild Cats, and many of the northern fur-bearing animals, including the expensive and nearly extinct Sea-Otter. Some of these species should be shown in groups, to provide which requires good series of specimens, and accessories made from materials and studies that can be properly provided only by sending an expert taxidermist to the home of the species it is desired to illustrate. There is thus here an opportunity for friends of the Museum, especially interested in the larger game animals of this continent, to aid the Museum in securing the specimens necessary to properly complete its exhibition collection of North American mammals.

The specimens and accessories for a Virginia Deer Group are ready, and will be installed as soon as provision is made for a suitable case for its reception. The only addition to the exhibit of birds is the case of four groups, with accessories, illustrating changes of plumage with season and age. This is the first of a series of groups designed to illustrate special features in the life histories of birds and mammals.

Attention is directed to the following noteworthy donations : (1) The Clarence A. Smith Collection of birds, 700 in number, presented by Mr. Albert Smith. (2) The Alfred Marshall Collection of Long Island birds and birds' nests, 600 in number, presented by the Linnæan Society of this city. (3) A collection of bird skins, from Alaska, presented by Lieut. George T. Emmons, U.S.N. (4) A valuable collection of Bats, from Jamaica, presented by Mr. Francis C. Nicholas. (5) A collection of bird skins, from Venezuela, presented by Mr. W. H. Phelps. (6) A number of large mammals received in the flesh, from Mr. James A. Bailey.

We are also again indebted to the Department of Public Parks for many mammals and birds received in the flesh from the Central Park Menagerie.

DEPARTMENT OF VERTEBRATE PALEONTOLOGY.—This department has been administered by its Curator, Prof. Henry F. Osborn, assisted by Drs. J. L. Wortman and W. D. Matthew.





L. C. LAUDY, PHOTO.

Areas explored for Fossil Mammals by the Museum Expeditions during the years 1891 to 1896, inclusive, under the Department of Vertebrate Paleontology.

The year 1896 is the fifth of the existence of this department, and while the task contemplated at the outset has not been fully completed, the success attained has been most gratifying. The discovery of new fields, however, shows that many years of work will still be required to complete what we have here undertaken.

Attention is called to the annexed map, which shows the regions that have thus far been explored. The shaded areas indicate the successive lake beds of northern New Mexico, northern Wyoming, southern Wyoming, northern Utah, South Dakota and northern Kansas, which contain the remains of animals left during a great life period of over a million years.

The exhibit of the phylum of the horse, though imperfect, is of exceptional educational value, and attracts a large share of attention. Probably no one series of objects in the department excels this in popular interest. As soon as the few remaining gaps in this series can be filled, it will form an absolutely perfect and unique exhibit. It is believed that the sum of ten thousand dollars would enable the Museum to prosecute the explorations necessary to secure a complete exhibit of the evolution of this interesting animal, and I express the hope that some public spirited friend of the Museum will desire to become identified with this undertaking. The entire amount need not be supplied at once, but could be contributed at intervals during a period of five years, as the work progressed.

Dr. Wortman conducted the exploration of the last season, which resulted in the completion of the entire Eocene Collection, the scene of operations being northern New Mexico and northern Wyoming. The expedition achieved excellent success, obtaining in northern New Mexico ample evidence that the Ground Sloths originated in this country—the most important palæontological discovery of the past ten years.

A number of fine skulls and skeletons, collected in Nebraska, have been purchased, completing the skeleton of one of our little horses, and that of one of the ancestors of the camel.

Mr. Handel T. Martin presented six skulls and portions of skeletons of large swimming lizards, from Kansas. Thirty valuable casts were received in exchange from Paris, and from the British and Oxford Museums. From the University of Munich

we received 360 valuable specimens of European fossil mammals and birds. The collection now contains the remarkable total of 10,780 specimens, of which 6861 have been catalogued and determined. It is now doubtless the richest and most valuable collection of its kind in this country.

Attention is called to the skillful manner in which the fossil skeletons have been mounted by Mr. Adam Hermann, preparator for this department.

Excellent photographs of the Bad Lands were made by Mr. Granger, Prof. William Stratford, of the College of the City of New York, having very kindly loaned his field camera for this purpose. Many of the views are now being enlarged, under the direction of Professor Stratford, who gives his services. These transparencies will be colored and hung in the windows of the Hall, thus giving the visitor an exact idea of the appearance of the beds in which the fossils are found.

We are also preparing, through the aid of Mr. L. C. Laudy and Prof. Stratford, a series of photographs of our mounted specimens, which will be available for exchange with foreign museums for photographs of mounted fossils in their collections.

Under the supervision of the Curator, Dr. Matthew has prepared two catalogues, one of which is arranged numerically and the other according to the families of animals, so that the student or specialist can in a few moments ascertain what we have.

The collection displays a number of novel methods of mounting the specimens, thus making the exhibit more than ordinarily attractive. The printed labels, which are of a popular character, are supplemented with large water-color drawings, showing restorations of many of the species. These illustrations were executed by Mr. Charles R. Knight, depicting as nearly as possible the appearance of these animals in life. The series was presented by Mr. J. Pierpont Morgan.

DEPARTMENT OF ANTHROPOLOGY.—In this department the growth for the year is very satisfactory. Prof. F. W. Putnam, Curator, and Dr. Franz Boas and Mr. M. H. Saville, Assistant Curators, and their assistants, Messrs. Harlan I. Smith and George H. Pepper, have been zealous in their respective duties.

The arrangement of the Ethnological Hall, on the first floor of the North Wing, which was opened to the public on the last day of November, shows, although not complete in all details, what it is expected will be done in continuing the ethnological exhibit in the new wing.

The plans when completed, will, I think, make this one of the best organized and the most important and thoroughly educational anthropological exhibits in this country, and it is hoped that each succeeding year will mark a step in advance.

The Ethnological Hall was opened to the public on November 30th last, the collections having been arranged under the supervision of Dr. Boas; but on the completion of the new wing, this hall will be restricted to the tribes of the Northwest Coast of America. To this end, much work has been done in classifying and labeling, and in making special exhibits and groups to illustrate certain phases and peculiarities in the customs and arts of the people. For this purpose many models of human figures, and parts of figures, were needed, and various contrivances had to be designed to show and explain the use of particular specimens. To carry out this system, an extensive knowledge of the objects is required, as also the expenditure of much thought, labor and money.

As the collections on the west side of the hall, representing the Eskimo, the northern Mexican tribes, and the Melanesians, are soon to be transferred to the new wing to make room for the expansion of the West Coast exhibit, the details of arrangement in these cases have not been carried out as in those on the opposite side of the hall, containing the West Coast material.

The single case containing the model of an Indian Village of British Columbia, is an illustration of a large series of exhibits by means of which the various homes of different peoples are to be shown in connection with their life, customs and arts. Another series of groups will show the dependence of a people on their environment and on the natural products of their country. In one exhibit the uses of the various products of the cedar tree are illustrated, this tree being of extreme importance to the people of our Northwest Coast.

Another exhibit in this hall is intended to illustrate the physical characteristics of a people, as shown by their skulls and skeletons, and by plaster busts and casts of parts of the body, by photographs, by samples of hair, etc.

A number of admirable full-length figures and busts, prepared by Mr. Caspar Mayer, have already been placed on exhibition.

In the Archæological Hall a portion of the Peruvian Collection has been placed in the cases on the east and north sides, and in several table cases. This was arranged by Mr. Saville so as to show several groups of objects obtained by Dr. Bandelier during his exploration in Peru. The part of the collection for which we are indebted to Mr. Henry Villard is exhibited in these cases; but a large part of the Peruvian and Bolivian Collections will have to remain in the store rooms until the new West Wing is ready for occupancy.

The collections from Mexico have also been placed on exhibition and arranged in this hall to show the various marked cultures of different portions of the country. Among these are collections obtained by purchase during Mr. Saville's trip to Mexico, and the large collection donated by the Duke of Loubat, obtained for him by Dr. Edward Seler. In these cases are also placed the objects collected by Mr. William Niven at Guerrero, Mexico.

The collection of pottery from the Casa Grande, collected some years ago by Dr. Lumholtz for the Museum, has been installed in the wall cases at the western end of the hall.

Three cases in the western portion of the hall have been assigned to the collection made by Messrs. B. Talbot B. Hyde and Frederick E. Hyde, Jr., from the cliff houses and caves in Utah, New Mexico and Colorado. When these are transferred to the new hall, there will also be displayed with them the objects secured by these gentlemen from their exploration of a ruined pueblo during the present year. The Messrs. Hyde have arranged to defray the cost of continuing these explorations for several years. Their enthusiasm and liberality will thus result in furnishing to the Museum a large and exceedingly interesting exhibit of this remarkable culture of prehistoric times.

The collection obtained by Mr. Harlan I. Smith at the prehistoric village site and burial place at May's Lick, Kentucky, is now



on exhibition. These objects have been arranged by Mr. Smith in a manner intended to show the life and customs of the people. Instructive labels and photographs help to tell the story.

A small collection, presented by the Peabody Museum of Cambridge, illustrates the art of chipping stone, as shown by specimens in different stages. The lot was obtained from the prehistoric quarry at Mount Kineo, in Maine, and forms a very interesting exhibit. A plan and photographs show the site of the quarry.

Another collection, accompanied by a plan showing the strata and the exact position of each object, illustrates an exploration for the Museum made by Mr. Ernest Volk in the Delaware Valley. This exploration is of such importance, and has so aroused the interest of the Duke of Loubat, that he has furnished the means for its continuance by the Museum until September, 1897.

EXPEDITIONS.—*Peru*.—The services of Dr. A. F. Bandelier were continued during the year. His time has been largely devoted to the preparation of a report describing his explorations on the islands of Lake Titicaca, the publication of which will greatly enhance the value of the very large collections accumulated, formerly under the auspices of Mr. Henry Villard, and latterly at the cost of the Museum.

*Honduras*.—In the last report mention was made of the Honduras expedition, undertaken through the contributions of two of the Trustees, in conjunction with a very ardent friend of the Museum, and the Peabody Museum of Cambridge. This work was carried on at the prehistoric ruins of Copan, and as a result we have received a number of interesting sculptures in stone, which were formerly part of the decorations of the ruined buildings in that wonderful city; these objects are now displayed on the tops of the cases in the Archæological Hall. Besides these, the Museum received, as its portion of the finds, a number of small objects in pottery and stone, among which were a large bead of jadeite, and a large piece of the same material, with a carving of a human head.

The Peabody Museum has added a series of potsherds and obsidian objects found in excavating a mound during the expedi-

tion of 1891 and 1892. There will also come to us a series of casts from the moulds made by the expedition, giving us a number of fac-similes of sculptures and hieroglyphs of the great stairway of the Temple. The Peabody Museum also places at our disposal the use of the moulds taken during the former expeditions, for such casts as may be desired.

*Mexico.*—The term of Dr. Lumholtz's stay in Mexico is drawing to a close, and his services will then be available for the compilation of the voluminous notes of his field-work prosecuted during 1894, 1895 and 1896. Praise is especially due to him for the collections made during this year, those received and now in transit being far more important than those made by him during either of the preceding two years.

With these brief references to the expeditions just noted, which are a part of the work of the department, attention is directed to other notable additions to the collections. To Mr. J. Pierpont Morgan we are indebted for the valuable Peruvian material, known as the "Garces Collection," consisting of gold, silver, copper and bronze objects, pottery vessels, wooden vases and garments (ponchos), from prehistoric sites on the islands and shores of Lake Titacaca, in Peru and Bolivia; also shell and feather work, consisting of collars, feather head-plumes, and a small feather poncho from the ruins of Gran Chimú, Peru. The Duke of Loubat has added to his former gifts an archæological collection from the State of Oaxaca, Mexico; a series of casts of the original sculptures in the Berlin Ethnological Museum, from the ruins of Santa Lucia Cozumahualpa, Guatemala; and a photographic copy of the "Codex Legislatif," an ancient Aztec book on maguey paper, preserved in the Library of the Chamber of Deputies, Paris. Reference was made in the preceding report of the gift by the same donor, of the widely-known "Charnay" casts of the sculptures from the sites of ancient ruins in Guatemala, Yucatan and Mexico. The set, numbering 51 pieces, was received at the Museum early in the year, and is temporarily installed in the large vestibule of the ground floor of the main entrance. This donor has ordered for the Museum, from the

Maudsley moulds, a copy of the sculpture at Quirigua in Guatemala, known as the "Great Turtle" of Quirigua. He has supplemented this by an order for a cast of the leaning monolith, twenty-eight feet high, from the same place; and for a tablet to complete the inner shrine of the Temple of the Cross from Palenque. The original of this tablet is in the National Museum at Washington.

Another of his gifts, a fac-simile reproduction of the "Codex Vaticanus," an ancient Aztec book on deerskin, preserved in the Vatican Library, Rome, has been spread in a frame twenty-three feet long, where it can be easily examined. He has also given ten photographs of another ancient Mexican book preserved in the Library of the Chamber of Deputies, Paris, which has heretofore been practically inaccessible for reference. Every student of American Archæology and Ethnology is deeply indebted to him for thus making the work comparatively accessible. Full and complete labels accompany the objects.

Mr. Francis Child Nicholas has donated two gold pendants of human form from Antioquia, Colombia, S. A., and two objects of jadeite from Costa Rica.

Civil Engineer R. E. Peary, U.S.N., made a visit to Greenland during the summer, accompanied by a party of scientists; good use was made of his opportunity, and he brought on his return a number of costumes and a series of objects from the various tribes of Eskimo, not met with on his expeditions of 1894 and 1895. These objects will be incorporated with the material brought back in 1895 by the Peary Relief Expedition.

The Peabody Museum, Harvard University, sent a cast of a sculptured head from Uxmal, Yucatan, and moulds of the sculptured chamber, ruins of Chichen-Itza, to complete the Charnay casts.

Early in the year the Mexican Legislature enacted a law authorizing His Excellency, President Porfirio Diaz, to grant a concession to this Museum enabling it to prosecute archæological research in Mexico and Yucatan. The terms of the contract provide that the explorations shall be carried on at the sole cost of the Museum. As compensation for this expenditure the concession grants a remission of import duties on the material sent into Mexico for

the work, and directs its Inspector of Monuments to allot to this Museum the objects found, when such are duplicates. This privilege, heretofore prohibited by law, is destined to result in great benefit to this Museum and to the National Museum of Mexico.

It is proposed to begin work next September at the ruined Temple of Xochicalco, in the State of Morelos ; this ruined city contains the most important structure of ancient Nahuatl culture extant in Mexico. A mould will be made of the eastern wall, which is the best preserved of the four sides ; it is sixty feet in length and thirteen feet in height, and the casts will provide the Museum with a most important reproduction, showing the art of stone carving and the mythology of these people, as illustrated in the sculpture. An exploration of the tombs will also be undertaken.

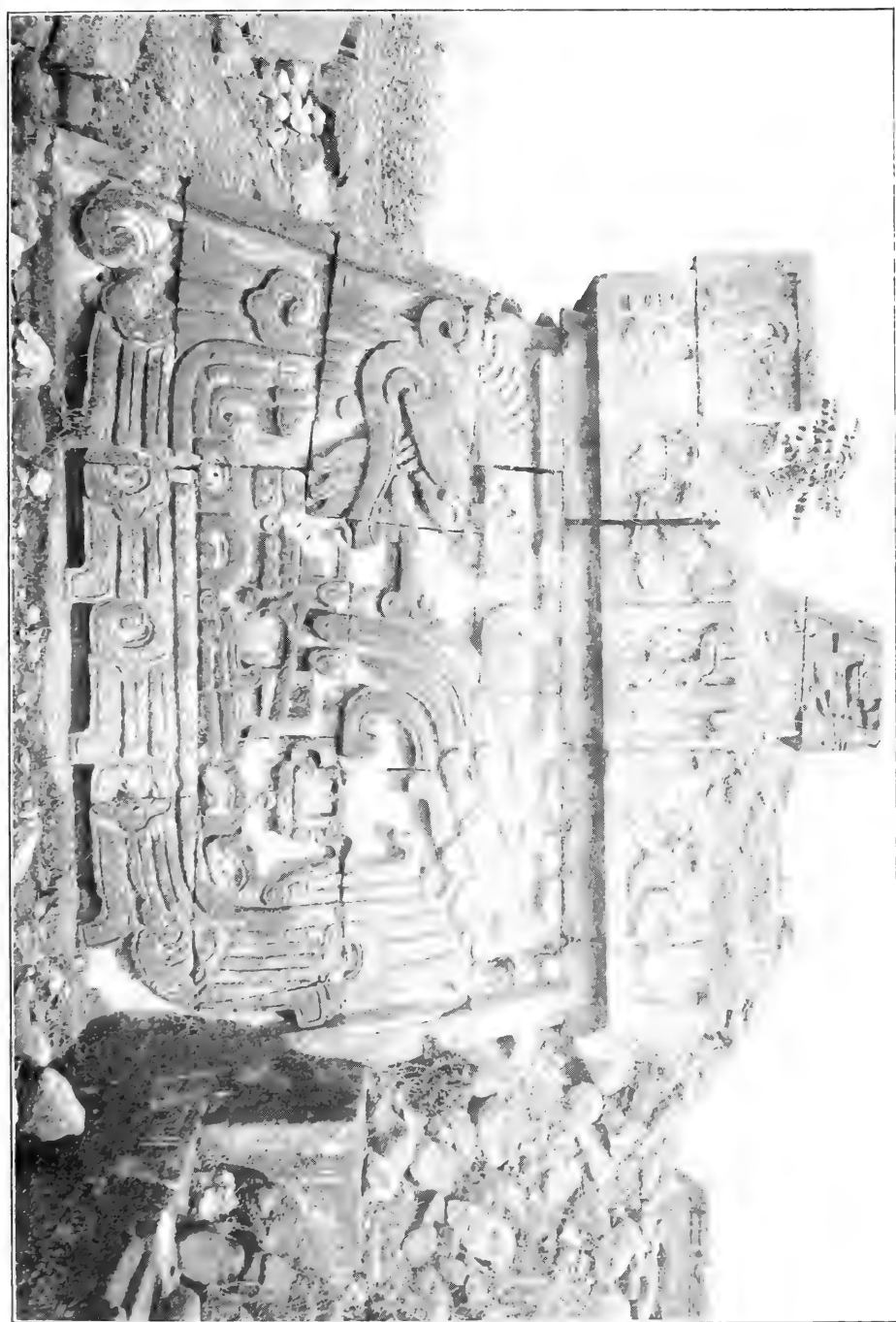
Following this work an exploration of the Usumacinto Valley will be made, covering the ruins of Palenque, and the little known ruins of Menché and Peidras Negras on the Guatemala frontier ; the work at these points is certain to yield most important results.

Graphic views of the Temple of Xochicalco are shown in this report, the photographs of which were made by Mr. Marshall H. Saville, Assistant Curator of Archæology, while in Mexico during the spring of this year.

Reference has already been made to the archæological material obtained by the Messrs. Hyde brothers, during their expedition of 1896 in New Mexico.

A valuable collection of jade ornaments, 70 in number, from Alaska, was added to the collection ; these objects were purchased by the Trustees, through the courtesy of Lieut. George T. Emmons, U.S.N., just prior to his departure from Sitka.

In closing my reference to the work in this department it is proper to add a few words regarding a subject of great interest, not only to the student of anthropology, but also to persons interested in scientific research in other fields. I refer to the theory that America was originally peopled by migratory tribes from the Asiatic continent. The opportunities favorable for solving this problem are rapidly disappearing, and I would be deeply





gratified to learn that some friend or friends of the Museum may feel disposed to contribute means for the prosecution of systematic investigations in the hope of securing the data necessary to demonstrate the truth or the falsity of the claims set forth by various prominent men of science. A map of the localities which should be covered by such a system of research appears in this report.

DEPARTMENT OF ENTOMOLOGY.—This department is under the charge of Mr. William Beutenmüller as Curator, with Mr. R. L. Ditmars as assistant. The collections in this department include such a large number of specimens that the work of cataloguing and numbering them is very tedious, and requires much time and care. In addition to this work much time has been devoted to labeling and arranging specimens in the cases for exhibition.

A section of the Gallery Hall, East Wing, was assigned for the collections of this department, and was opened to the public late in the year. The wall cases on the north side of this hall are filled with specimens of Moths and Butterflies mounted on the Denton plaster tablets, having a concave surface; each species is represented by four specimens, the sexes being illustrated by two specimens each, showing the upper and the lower surfaces. A representative collection of Beetles from all parts of the world has been placed on exhibition in the desk cases, and also many specimens of Grasshoppers, Cicadas, etc. The Jesup Collection of Insects Injurious to Forestry, and collections of Wasp and Termite Nests, Scorpions, Silk Worms, etc., are displayed in the wall cases not devoted to the main collection.

An effort will be made to add to the number of specimens mounted on plaster tablets as soon as a satisfactory arrangement can be made. A number of large water color illustrations of injurious insects have been made from the specimens mounted with natural accessories, and a number of other similar illustrations, as yet unfinished, will be completed with the return of spring, when the necessary specimens can be collected.

A group is in preparation illustrating the life history of the Honey Bee, in which will be shown the old and the modern hive, and the nest of wild bees.

The material accessible for examination now comprises the Moths and the Butterflies of the Edwards, the Angus and the Elliott Collections, aggregating 70,000 specimens.

The cataloguing of the Beetles, Bees, Flies, etc., from the Edwards, Elliott, Angus, Weber and Nicholas Collections, is progressing steadily, following which the material will be available for reference. It is estimated that 280,000 objects yet remain to be numbered and catalogued. It is evident that the growth of this department will soon require the assignment of a separate hall for its display.

Mrs. William H. Bradford very generously donated the collections of insects and books gathered by her son, George Dexter Bradford, deceased ; the collection is important, numbering 5000 objects, many of which are new to the Museum collections.

A very welcome addition to the collection was presented by Mr. Francis Child Nicholas, consisting of selected specimens from Honduras, Jamaica and the United States of Colombia, embracing among other material large and complete nests of white ants and wasps, from Jamaica.

Our thanks are also due to Mr. William Schaus, to whom we have been indebted in the past, for a gift of 700 butterflies from the Old World and South America ; most of this material was previously unrepresented in the collections.

LIBRARY.—The Librarian, Mr. A. Woodward, reports accessions equaling 2064 volumes, making the total of volumes now in the Library 32,502.

Very gratifying relations have been established with a number of foreign societies, through which they have been added to our exchange list during the year. The number of accessions is greatly in excess of that of any previous year, and the library shelves are now full. The completion of the West Wing, however, will relieve this congestion, and provide room for future expansion. A very noticeable increase is apparent in the number of applications for works of references, and this feature has made more manifest the need of money to procure the many important works still unrepresented in the Library.



The principal donations have been as follows : From the Hon. Levi P. Morton, 16 volumes ; Hon. R. P. Flower, 6 volumes ; Hon. Lemuel E. Quigg, 11 volumes ; Dr. Joseph Weiner, 65 volumes ; Prof. A. S. Bickmore, 25 volumes ; Mrs. William H. Bradford, 42 volumes ; Mr. James Angus, 124 volumes, and Mr. Samuel P. Avery, 15 volumes.

ENLARGEMENT OF THE BUILDING.—The construction of the west wing has progressed favorably, and the structure would have been completed at this time had the contractor not met with many obstacles in obtaining the class of granite called for in the specifications. The building is, however, nearly ready, aside from the work of casing and equipping, and I feel confident that it will be opened early in the spring of 1898.

The temporary structures at the north end of the old building will shortly be demolished, and the wall repaired to present a more finished surface.

Plans have been prepared to place the laboratories on the upper story of this building (north wing), where the assistants will have better facilities for their work.

As foreshadowed in the preceding annual report, application was made to the Legislature early in the year for a law authorizing the city to erect a structure to complete the present east wing. This statute, which is designated as Chapter 175 of the Laws of 1896, became a law April first with the approval of His Excellency, Governor Morton, it having previously received the approval of His Honor, Mayor Strong. The plans for this structure were prepared later in the year, and will be presented for the consideration and action of the Trustees early in 1897.

The construction of this addition has not been begun any too soon ; on the contrary, the plans for work in the field are such that it will be needed for the collections much in advance of its completion.

In preparing for the work the architects have made ample provision for all the facilities required by the growth of the collections. When completed the structure will comprise the sixth

addition, and when a similar extension has been made to the west wing, the south front of the Museum will be completed.\*

The preparation of the charter draft for the greater city afforded the means of revising and condensing a number of statutes affecting the Museum, enacted from time to time since its incorporation. In the completed draft these laws have been brought under their appropriate titles, and state explicitly the relations of the Museum with the city.

EXCHANGES OF DUPLICATE MATERIAL.—The Ethnological Museum at Copenhagen, Denmark; the National Museum of Rio Janeiro, Brazil; the National Museum at Buenos Ayres, and the National Museum at Washington, D. C., have established relations with us for interchange of duplicate material. These connections will be of advantage chiefly for the exchange of ethnological material.

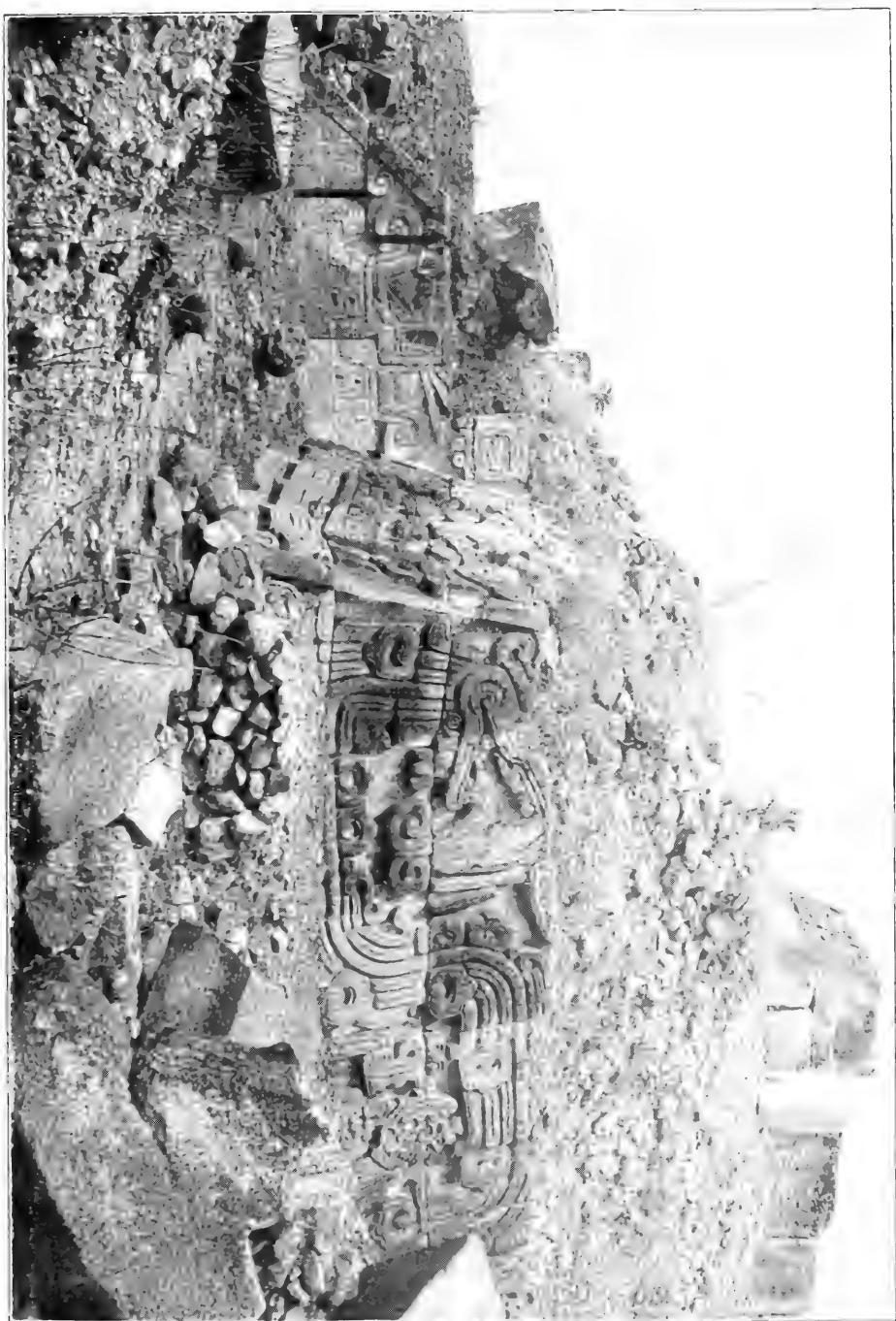
MEMBERSHIP.—General Louis Palma di Cesnola was elected a Patron early in the year, and the following persons were also elected Life Members: Mrs. William H. Bradford, Miss Laura P. Halsted, Miss Margaret Jacobi, Miss Laura Jacobi, Messrs. Albert Delafield, Frederick E. Hyde, Jacob Meyer, George C. Rand and Albert Smith.

PERMANENT ENDOWMENT FUND.—A bequest of one hundred dollars was paid by the executors of the late James Cruikshank, and Mrs. William H. Bradford gave one thousand dollars in memory of her son George Dexter Bradford, deceased; Miss Margaret Jacobi, Miss Laura Jacobi, Miss Laura P. Halsted, and Messrs. George C. Rand and Jacob Meyer each contributed one hundred dollars. These sums were invested in securities for the Permanent Endowment Fund.

The thanks of the Trustees are due to the Presidents of the Erie Railroad Company, the Missouri Pacific Railroad Company and branches, and the Atchison, Topeka and Santa Fé Railroad,

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\* The terms of Chapter 235, Laws of 1895, and of Chapter 175 of the Laws of 1896, appear on pages 32, 33.





for courtesies extended in the transportation of our forces in the field.

FINANCES.—The Treasurer's Report exhibits the following receipts and disbursements :

MAINTENANCE :

Receipts from the City.....	\$94,992 79	
“ “ Trustees' account.....	4,620 33	\$99,613 12
Balance January 1, 1896 .....	\$4,620 33	
Disbursements.....	98,399 02	103,019 35
Deficit....		<u>\$3,406 23</u>

ENDOWMENT :

Receipts from all sources.....		\$69,403 02
Disbursements for the increase and develop- ment of collections.....	\$73,382 44	
Balance January 1, 1896 .....	3,278 68	76,661 12
Deficit.....		<u>\$7,258 10</u>

The total deficiency was \$10,664.33, due to the following causes : first, a deficit in Maintenance account ; second, a shrinkage of the estimated receipts from Endowment sources ; and, lastly, purchases of important material for the betterment of the collections authorized subsequent to the adoption of the annual Budget.

As in the past this deficiency will be liquidated by a special contribution from the Trustees.

With very few exceptions the close of each year has disclosed a deficit in the receipts of the Museum, and I make this reference because it is proper that our citizens should be aware of the fact that the Trustees have this condition to confront annually. The willingness on their part to render this service should inspire some of our public-spirited citizens of means to contribute toward the work of the Museum. This can be done in many ways ; by gifts

of money for special field work, or for the purchase of important collections ; or by the donation of important collections. Another means of enriching the Museum is to defray the cost of special and rare groups of animals, in which direction the collections need strengthening.

Our annual reports of this and preceding years contain references to many persons to whom the Museum is indebted for donations of this character. I have noted an instance in this report where the liberality and enthusiasm of three of our Patrons are assuring the addition of remarkable archæological collections.

Similar work soon to be commenced among several of the ruined cities of Mexico present an opportunity for some friend of the Museum to provide the means for the first season's explorations, and to identify his or her name with the very interesting results certain of attainment. Many rare and expensive works are needed for the Library, but they cannot be secured for want of means.

It is not intended to create the impression that the Institution lacks friends aside from the Trustees ; on the contrary, it has many liberal Patrons, but by no means the number of friends that the great work it is doing for the city merits.

Its advantages to the public increase yearly, as the Museum is administered in the most liberal manner for the educational advancement of our citizens. Never in its history has its growth been equaled by that of the past ten years ; nor have its collections been before so attractively displayed. I repeat the hope that some of our citizens will be moved to take a deeper interest in the Museum by subscribing more generously to the support and increase of the collections.

In reviewing the events of the year I beg to extend to the Annual Subscribers and the Life Members my sincere thanks for their valuable aid, and to express the hope that the Museum will continue to merit their interest and support.

In closing I desire to express my hearty appreciation of the substantial aid given by the Trustees, and to the Municipal and State authorities my earnest thanks for their coöperation in maintaining the Institution.

I also wish to record my appreciation of the manner in which the members of the scientific and administrative staffs of the Museum have performed the duties devolving upon them during one of the busiest years in the history of the Institution.

MORRIS K. JESUP,

*President.*

## CHAPTER 235.

AN ACT to provide for enlarging the building situated in Central park, in the city of New York, and occupied by the American Museum of Natural History, for the purpose of furnishing proper facilities for increased exhibition.

Accepted by the city.

Became a law April 4, 1895, with the approval of the Governor. Passed, three-fifths being present.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. The department of public parks in the city of New York, with the concurrence of the board of estimate and apportionment, is hereby authorized to erect and equip an addition to the building situated in that part of Central park, formerly known as Manhattan square, and which is now in the possession and occupation of the American Museum of Natural History, under and in accordance with a contract made in pursuance of chapter one hundred and thirty-nine of the laws of eighteen hundred and seventy-six, chapter two hundred and seventy of the laws of eighteen hundred and ninety-two, and chapter thirty-one of the laws of eighteen hundred and ninety-three. Said addition shall include in its halls for public exhibition suitable space for the proper display of the specimens of the museum. The trustees of said museum shall select the architects to prepare under their direction the plans, and to superintend under the direction of the commissioners of parks the construction of said addition. Said plans, when completed, shall be submitted by said trustees to the commissioners of said department for their approval, and may include any alteration of the present building made necessary by the enlargement, and such improvements and repairs to it as the commissioners of said department and the trustees of said museum may agree are proper and necessary. The commissioners of said department shall provide for the compensation of the architects out of the fund hereby provided for the erection of said addition. Said equipment shall include all the cases and fittings required for the preparation, exhibition and preservation of the specimens, books and other property of the museum.

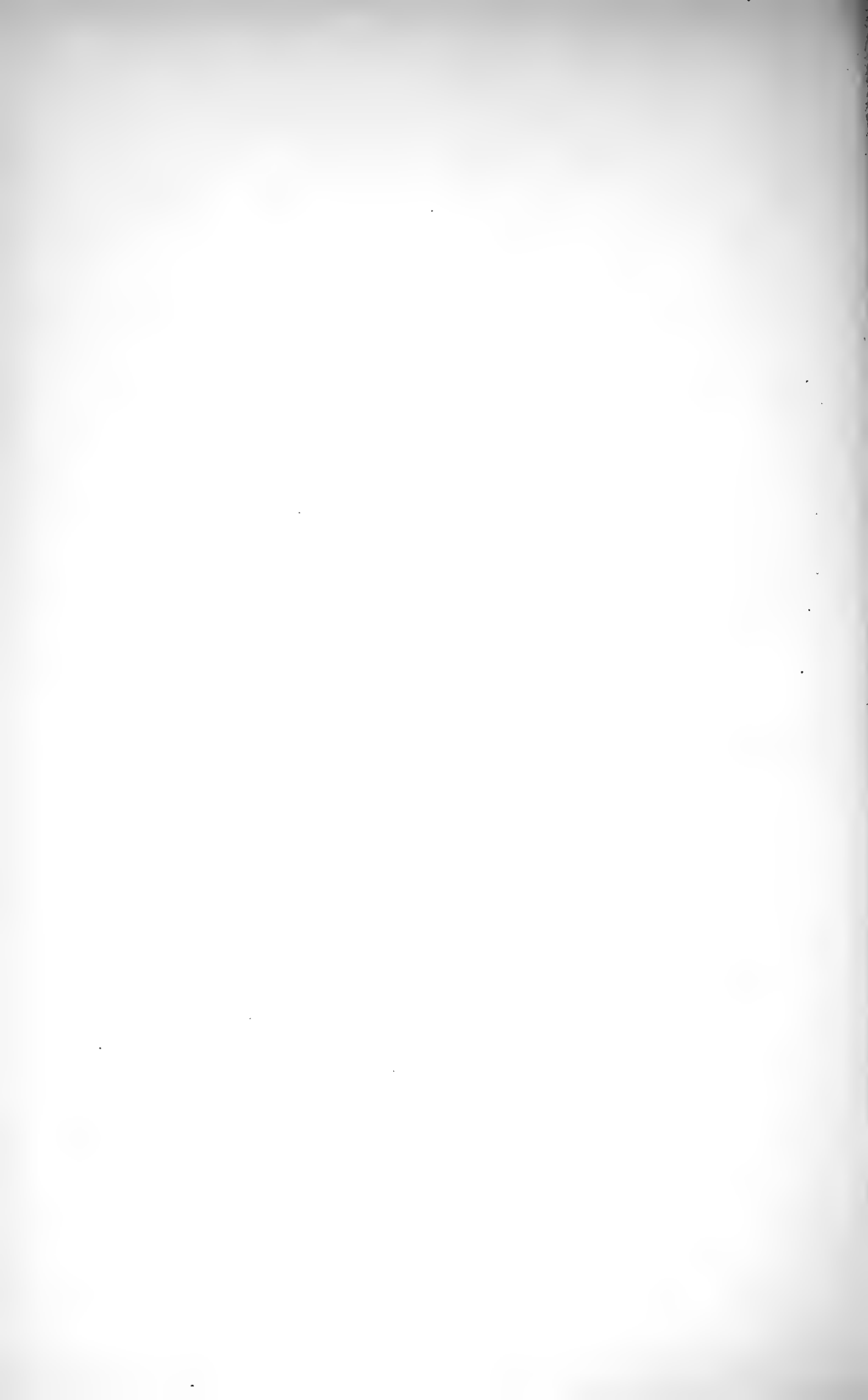
§ 2. For the purpose of providing means for carrying into effect the provisions of this act, it shall be the duty of the comptroller, upon being thereunto authorized by the board of estimate and apportionment, to issue and sell, but not at less than their par value, bonds or stocks of the mayor, aldermen and commonalty of the city of New York, in the manner now provided by law, payable from taxation, but not exceeding in the aggregate the sum of five hundred thousand dollars, bearing interest at a rate not exceeding four per centum per annum and redeemable within a period of time not exceeding thirty years from the date of their issue.

§ 3. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed.

§ 4. This act shall take effect immediately.







## CHAPTER 175.

AN ACT to provide for enlarging the building situated in Central park, in the city of New York, and occupied by the American Museum of Natural History, for the purpose of furnishing proper facilities for increased exhibition.

Accepted by the city.

BECAME a law April 1, 1896, with the approval of the Governor. Passed, three-fifths being present.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. The department of public parks in the city of New York, with the concurrence of the board of estimate and apportionment, is hereby authorized to erect and equip an addition to the building situated in that part of Central park formerly known as Manhattan square, and which is now in possession and occupation of the American Museum of Natural History, under and in accordance with a contract made in pursuance of chapter one hundred and thirty-nine of the laws of eighteen hundred and seventy-six, chapter two hundred and seventy of the laws of eighteen hundred and ninety-two, and chapter thirty-one of the laws of eighteen hundred and ninety-three. Said addition shall include in its halls for public exhibition suitable space for the proper display of the specimens of the museum. The trustees of said museum shall select the architects to prepare, under their direction, the plans, and to superintend under the direction of the commissioners of parks the construction of said addition. Said plans, when completed, shall be submitted by said trustees to the commissioners of said department for their approval, and may include any alteration of the present building made necessary by the enlargement, and such additions, improvements and repairs to it as the commissioners of said department and the trustees of said museum may agree are proper and necessary. The commissioners of said department shall provide for the compensation of the architects out of the fund hereby provided for the erection of said addition. Said equipment shall include all the cases and fittings and other apparatus required for the exhibition and preservation of the specimens, books and other property of the museum.

§ 2. For the purpose of providing means for carrying into effect the provisions of this act, it shall be the duty of the comptroller, upon being thereunto authorized by the board of estimate and apportionment, to issue and sell, but not at less than their par value, bonds or stocks of the mayor, aldermen and commonalty of the city of New York, in the manner now provided by law, payable from taxation, but not exceeding in the aggregate the sum of five hundred thousand dollars, bearing interest at a rate not exceeding four per centum per annum, and redeemable within a period of time not exceeding thirty years from the date of their issue.

§ 3. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed.

§ 4. This act shall take effect immediately.

THE AMERICAN MUSEUM OF NATURAL HISTORY

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*MAINTENANCE.*

RECEIPTS.

Trustees.....	\$4,620 33	
Department of Public Parks.....	<u>94,992 79</u>	\$99,613 12
To Balance.....		3,406 23

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\$103,019 35

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Examined            { THEO. A. HAVEMEYER, } *Auditing*  
and approved, { ANSON W. HARD,        } *Committee.*

Correct.—JOS. W. EDWARDS, *Auditor, Feb. 8, 1897.*

*MAINTENANCE.*

DISBURSEMENTS.

By Balance January 1, 1896.....	\$ 4,620 33	
Expressage.....	622 24	
Salaries.....	39,593 59	
Labor.....	30,458 30	
Printing....	69 80	
General Expenses ...	3,014 39	
Postage.....	252 25	
Repairs.....	2,687 75	
Coal.....	4,654 21	
Supplies.....	3,314 41	
Labels....	2,958 60	
Stationery.....	1,122 67	
Fixtures.....	6,524 68	
Interest on "Dr." balances.....	1,262 10	
Poison.....	1,121 07	
Traveling Expenses.....	74 16	
Annual Report.....	668 80	\$103,019 35
		<u>\$103,019 35</u>
By Balance.....		<u>\$3,406 23</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, Dec. 31, 1896.

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT.

RECEIPTS.

To Interest on Invested Funds .....	\$18,600 00	
Trustees :		
C. Vanderbilt.....	\$1,000 00	
Chas. Lanier.....	500 00	
Oswald Ottendorfer .....	1,000 00	
Theo. A. Havemeyer .....	1,000 00	
Adrian Iselin.....	500 00	
D. O. Mills.....	1,000 00	
D. Willis James.....	1,000 00	
William E. Dodge.....	1,000 00	
Anson W. Hard.....	500 00	
Jos. H. Choate .....	500 00	
Archibald Rogers.....	500 00	
Wm. C. Whitney .....	1,000 00	
J. Pierpont Morgan .....	1,000 00	
Morris K. Jesup.....	1,000 00	
James M. Constable.....	1,000 00	
Abram S. Hewitt.....	500 00	13,000 00
Annual Members.....		7,030 00
Life Members :		
Albert Delafield.....	\$100 00	
Frederick E. Hyde.....	100 00	200 00
Admission Fees .....		903 00
Henry F. Osborn .....		1,500 00
Cope Collection Fund, Mrs. Wm. H. Osborn ...		1,000 00
State Superintendent of Public Instruction.....		12,000 00
J. Pierpont Morgan, Garces Collection ..		4,571 75
Joseph F. Loubat.....		750 00
B. T. B. and F. E. Hyde, Jr.....		600 00
Ethnic Group Fund.....		1,000 00
Special Loan.....		8,000 00
Guides.....		221 27
Collecting Permits.....		27 00
		\$69,403 02
To Balance.....		7,258 10
		<u>\$76,661 12</u>

Examined { THEO. A. HAVEMEYER, } *Auditing*  
and approved, { ANSON W. HARD, } *Committee.*

Correct.—JOS. W. EDWARDS, *Auditor, Feb. 8, 1897.*

# ENDOWMENT.

## DISBURSEMENTS.

By Balance January 1, 1896.....	\$3,278	68	
Minerals.....	599	00	
Ornithology.....	76	10	
Bulletin.....	2,498	58	
Mammals.....	761	21	
Emmons' Second Alaskan Collection.....	6,031	35	
Kunz Jade Collection.....	600	00	
Anthropology.....	6,718	10	
Library.....	420	70	
Mammal Groups.....	468	23	
Appleton Sturgis.....	3,959	38	
Skeletons.....	310	67	
Lumholtz Expedition.....	1,875	05	
Geology.....	8	35	
Postage.....	49	70	
Traveling Expense.....	889	80	
Conchology.....	5	05	
Peruvian Expedition.....	4,486	35	
Edwards' Entomological Collection.....	600	00	
Entomology.....	227	29	
Insect Groups.....	225	00	
Spang Mineral Collection.....	150	00	
Trustees Account, transfer to Maintenance Account,	4,620	33	
Haines Shell Collection.....	1,000	00	
Cope Collection.....	8,250	00	
Vertebrate Palæontology.....	3,971	80	
Department of Public Instruction.....	9,654	05	
Economic Collection.....	18	33	
Invertebrate Zoölogy.....	750	00	
Special Loan.....	8,074	00	
Marine Invertebrate Zoölogy.....	38	41	
Ethnic Groups.....	451	94	
Garces Collection Peruvian Antiquities.....	4,071	75	
Mexican Concession.....	221	03	
J. A. Allen.....	500	00	
Salary.....	333	33	
Reception.....	425	28	
Interest on "Dr." Balance Endowment Fund.....	42	28	\$76,661 12
			<u>\$76,661 12</u>
By Balance.....			<u>\$7,258 10</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, Dec. 31, 1896.

## FORM OF BEQUEST.

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*I do hereby give and bequeath to "THE AMERICAN MUSEUM OF  
NATURAL HISTORY," in the City of New York,.....*

.....

.....







# LIST OF ACCESSIONS, 1896.

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## GEOLOGICAL DEPARTMENT.

- CAPT. E. T. AMBURG, through Prof. P. S. Curtiss, 85 Downing Street,  
Brooklyn, N. Y.  
1 Specimen of bituminous shale, from Iquique, Chili, S. A.
- MRS. BERTHA BARTLETT.  
A few Hamilton fossils, from Capon Springs, W. Va.
- PROF. C. E. BEECHER, New Haven, Conn.  
12 Specimens of Bryozoa, Lower Helderberg group, from Indian  
Ladder, N. Y.  
8 Specimens of Bryozoa, Hamilton group, from Canandaigua Lake,  
N. Y.
- HIS EXCELLENCY SIR HENRY ARTHUR BLAKE, K. P. M. G.,  
Jamaica, W. I.  
Natural cast of a fossil shell, from Orange River Valley, near Ken-  
sington, St. Thomas Parish, Jamaica.
- THOMAS M. DUNHAM, Ocean Grove, N. J.  
1 Valve, very large, of *Exogyra costata*, from Freehold, N. J.  
4 Specimens of *Belemnites mucronatus*, from Squankum, N. J.  
1 " *Scaphites conradi*, from Black Hills?  
Some petrified wood, from Asbury Park, N. J.

- ROBERT M. HARTLEY, Amsterdam, N. Y.  
 1 Specimen of *Orthoceras*, from Mill Pt. Fall on Schoharie Creek, N. Y.  
 3 " " Concretions, " " " " " "
- E. O. HOVEY, New York City.  
 Carboniferous fossils, from Seneca, Mo., from T. T. Luscombe, Esq.  
 Small lot Lower Green-sand fossils, from Atlantic Highlands, N. J.
- MISS F. A. M. HITCHCOCK.  
 Coal Measure fossils, from McKenzie Creek, Texas.  
 Cretaceous " " St. Joseph, "  
 " " " Weatherford, "
- DR. KEMP, West 23d St., New York.  
 6 Specimens of *Endoceras proteiforme* Hall, from Trenton Falls, N. Y.  
 3 " " *Bellerophon bilobatus* Sow., " " "  
 1 " " *Conularia trentonensis* Hall, " " "  
 1 " " *Calymene senaria* Conrad, " " "  
 1 " " *Asaphus gigas* De Kay (small), " " "  
 1 " " Counterpart of *Trematis termi-*  
*nalis* Em., " " "
- F. C. NICHOLAS, 137 Broadway, New York City.  
 A large number of Cretaceous fossils (*Hippurites*, &c.), from near  
 Christiana, Jamaica.  
 Many Tertiary fossils and samples of shale and other geological speci-  
 mens overlying the trap rocks at Trelawney and St. Ann's Parish,  
 Jamaica, W. I. This is a most valuable gift, and deserving of  
 consideration.
- NEWELL A. PARSONS, Enfield, Conn.  
 A series of clay stones, from the vicinity of Enfield, on banks of  
 Scantic River, Conn.
- R. P. WHITFIELD, New York City.  
 Large number of Lower Green-sand fossils, from Atlantic Highlands,  
 N. J.  
 Some fossil shells, from Nassau, N. P.  
 A bottle of Foraminiferous sand, from South Beach, Nassau, N. P.

## MINERALOGICAL DEPARTMENT.

- CAPT. E. T. AMBURG, through Prof. P. S. Curtiss, 85 Downing Street,  
 Brooklyn, N. Y.  
 1 Specimen of Chromite, from Philippine Islands ?  
 1 " " Alum ore.
- MR. BAXTER, Brooklyn, N. Y.  
 3 Concretions of Pyrite, from the Alum clays at Bath-alum, Va.
- MR. BURDELL, through F. C. Nicholas.  
 1 Specimen of Lionite, from Mountain Lion Mines, Colo.
- COPPER QUEEN CONSOLIDATED MINING CO., Bisbee, Arizona,  
 through Prof. James Douglass.  
 5 Large specimens of Copper Carbonates, Azurites and Malachites,  
 the former chiefly fine smaller specimens; and about 10 still  
 smaller, reserved for duplicates. All from Bisbee, Ariz.
- GEORGE F. FITZPATRICK, JR.  
 3 Specimens of twinned Gypsum crystals, from Kansas.

DR. EMIL HOLUB.

- 27 Lots of samples, from the Kimberley region Diamond formations, showing section of rocks at that place and near it.

MRS. E. V. HOUGHTON, San Francisco, Cal.

- 3 Small aggregates of very small Quartz crystals, from Madrone, Santa Clara Co., Cal.  
2 Specimens of Opalescent drusy Quartz.

MORRIS K. JESUP, New York City.

- 1 Large Tourmaline (black, on matrix block).  
18 Specimens of Mica (Muscovite), many containing Dumortierite crystals.  
6 Specimens of Garnet (Almandite).  
3 " Xenotime, in granite.  
3 " Apatite.  
2 " Monazite.  
1 " Cyrtolite ? (Zircon). (All from 171st Street and Fort Washington Avenue, City.)

CHARLES H. JONES, Fulton Street, New York City.

- 1 Large specimen of Diabantite, from quarries in trap at Paterson, N. J.

F. C. NICHOLAS, 137 Broadway, New York City.

- Several Pseudomorphs of Calcite and Selenite after Halite Crystals.

ISAAC E. OGDEN, 411 Washington Street, New York City.

- 1 Specimen of Chalcopyrite and Quartz, from Ellenville, N. Y.

NEWELL A. PARSONS, Enfield, Conn.

- Several specimens of salt crystals, pseudomorphs in metamorphosed shale, from Westfield, Conn.

DAVID PROSKEY.

- 1 Specimen of Thaumasite, from quarries at Paterson, N. J.  
1 " Apophyllite, " " " "  
1 " Heulandite, " " " "  
1 " Calcite, " " " "

J. P. RYAN, New York City.

- Some Zeolites, from Giant's Causeway, Ireland.

M. L. TOWNSEND, 34 West 45th Street, New York City.

- 1 Large mass of natural Salt (Halite), from salt shaft, Livonia, Livingston Co., N. Y.

WILLIAM WALLACE, New York City.

- 1 Specimen of crystallized Calcite, from Paterson, N. J.

HAROLD LESLIE WARNER, 149 West 70th Street, New York City.

- 4 Specimens of Gold Quartz.

R. P. WHITFIELD, New York City.

- 1 Entire Meteorite (iron) from the Cañon Diablo Fall. 14½ grams.

## GEM DEPARTMENT.

AMERICAN TORQUOISE CO., 68 Nassau Street, through the Tiffany Co.

- 1 Specimen of Turquoise in Matrix, from Los Cerillos, New Mexico.  
3 " " " (Cabochons), " " "  
1 " " " (Small Ball), " " "  
3 " " " (Nodules), " " "  
Many chips " " " " "

JOHN H. WINSER, New York City.

- Collection of Garnets, from Sitkian River, Alaska.

## CONCHOLOGICAL DEPARTMENT.

LADY HENRY ARTHUR BLAKE, Jamaica, W. I.

Package of Marine and Land shells, from Jamaica, W. I. Duplicates.

F. C. NICHOLAS, 137 Broadway, New York City.

2 Specimens of *Strombus gigas*, from Montego Bay, Jamaica, W. I.

Several young

1 Bunch of *Perna* on Mangrove root, " " " "

A large lot of Land shells, from Jamaica, W. I.

Some Marine shells, " " " "

A number of living specimens of *Orthalicus*, from Jamaica, W. I.

Several specimens of *Melania*.

2 Specimens of *Bulimus oblongus*, (adult) containing each an egg.

1 " " (immature).

27 Eggs " " entire, and several broken to show embryo shells.

R. P. WHITFIELD, New York City.

A large number of Marine and Land shells, from Nassau, N. P.

## DEPARTMENT OF MARINE INVERTEBRATES.

DR. C. S. ALLEN, through Mr. F. M. Chapman.

1 Specimen of Hermit Crab, *Eupagurus* (large), from Florida.

BROWN BROTHERS, Nassau, N. P., through R. P. Whitfield.

1 Specimen of *Hippospongia cerebriformis* D. & M., from Nassau, N. P.

1 " *Colpophyllum fragile* Dana, " " "

W. B. DE GARMO, M.D., 56 West 36th Street, New York City.

1 Specimen of *Loligo pealei* Leseuer. From Long Island Sound, N. Y.

LIEUT. G. T. EMMONS.

16 Specimens of rock Barnacles, from Ward's Cove, Alaska.

R. N. MUSGROVE, Nassau, N. P., through R. P. Whitfield.

1 Specimen of *Hippospongia canaliculata* Litch, from Nassau, N. P.

1 " " *graminea* var. *porosa*, " "

1 " *Euspongia officinalis* var. *punctata*, " "

F. C. NICHOLAS, 137 Broadway, New York City.

2 Specimens of Octopus, from Jamaica, W. I.

1 Crab (*Ibacus æquinoxides*?, young), from Jamaica, W. I.

1 " " from Montego Bay, Jamaica, W. I.

1 " Hermit Crab, from Ritchfield Mt., Jamaica, W. I.

1 " " (Sea soldier), from Montego Bay, Jamaica, W. I.

1 " Sponge, from Turks Island, W. I.

PARK COMMISSIONERS, through T. H. Bean, City Aquarium.

1 Specimen *Loligo pealei* Leseuer.

G. H. PEPPER.

5 Specimens of *Apus aequalis*, from Adobe Flats, near Chaco Cañon, N. Mex.

10 Specimens of *Brachinectes coloradoensis*, from Chaco Cañon, N. Mex.

2 Specimens of *Thaumocephalus platyurus*, ? from Chaco Cañon, N. Mex.

FRANKLIN ROOSEVELT, through Miss Frances Pell.

- 3 Specimens of Star Fish (Ophiurian, &c.), from near Eastport, Me.  
 4 " *Astrophyton* Agassiz, " " " "

R. P. WHITFIELD, New York.

- 3 Specimens of *Briareum asbestium* Verrill.  
 5 " *Gorgonia flabellum* Linn., three of which are grown upon corals.  
 2 " " *elongata* Pallas.  
 2 " " (*Pterogorgia*) *rosea* Lam.  
 2 " " " *setosa* Dana.  
 2 " " " *violacea* Pallas.  
 3 " " (*Eunicea*) *madrepora* Dana.  
 1 " *Muricea spicifera* Lam.  
 2 " *Plexaura crassa* Lam.  
 3 " " *flexuosa* Lam.  
 1 " " (*Eunicea*) ?  
 7 " " ? ?  
 2 " *Plexaurella dichotoma* Koll.  
 1 " *Aplysina flagelliformis* Carter.  
 2 " *Hercynia acuta* Hyatt.  
 1 " " *campana* Hyatt.  
 5 " *Isodactya infundibuliformis* Bow.  
 5 " *Stigmatella corticata* Lind.  
 2 " *Tuba plicifera* Hyatt.  
 6 " Cup sponges ? ? .  
 2 " Group tubes ? ? .  
 5 " Black sponges ? ? .  
 1 " Sponge ? ? .  
 4 " *Verongia hirsuta*.  
 3 " *Porites clavara* Lam.  
 1 " Porites ? .  
 6 " *Millepora complanata* Lam.  
 1 " *Madrepora palmata* Lam.  
 2 " " *cervicornis* Lam.  
 7 " *Agaricia cristata* Lam.  
 5 " " (*Mycodia*) *cucullata* ? Oken.  
 3 " *Meandrina clivosa* Verrill.  
 4 " " *labyrinthica*, ? .  
 2 " *Ctenophyllia pectinata* Lam.  
 2 " " *quadrata*, &c.  
 1 " " *profunda* Dana.  
 2 " *Diploria stokesi* ? .  
 1 " " *crebriiformis* ? .  
 5 " *Orbicella annularis* Dana.  
 2 " " *cavernosa* Dana.  
 1 " " *radiata* Ellis & Sol.  
 3 " *Siderastræa sidera* Verrill.  
 2 " *Mussa angulosa* Pallas.  
 3 " *Dichocania reticulata* Dana.  
 1 " " *porcata* Verrill.  
 1 " *Eusmilia aspera* ? .  
 9 " *Astræa* ? ? .  
 6 " *Manicina areolata* ? Eh.  
 3 " *Isophyllia* ? ? .  
 1 " *Pentaceras reticulatus* Gray.  
 1 " Star fish.  
 4 " *Hipponoe esculenta* A. Ag.



R. P. WHITFIELD, New York.—*Continued.*

- 4 Specimens of *Hipponoe* ? .
- 3     "     *Diadema setosa* Gray.
- 4     "     *Echinanthus rosaceus* A. Ag.
- 6     "     *Zoanthus confertus* Verrill.
- 4     "     Hermit Crabs.
- 1     "     Eupaguras in Strombus. (All of these are from  
              Nassau, N. P. Bahamas.)
- 2     "     Hermit Crabs, from Palm Beach, Fla.
- 1     "     *Oculina diffusa*, from South Florida.

## DEPARTMENT OF MAMMALS.

J. A. BAILEY, New York City.

- 2 Polar Bears, 1 Tiger, 1 Lion, 1 Eland, 1 White-tailed Gnu, 1 Rhinoceros.

L. C. BUCKLEY, New York City.

- 1 Civet Cat.

MRS. AMELIA F. BAKER, New York City.

- 1 Squirrel.

DR. FRANZ BOAS, New York City.

- 1 Skull of Lemur.

ALBERT B. CARR, Trinidad, B. W. I.

- 1 *Artibeus bilobatus*.

F. M. CLARKE, New York City.

- 1 Persian Cat.

GEORGE COPE, Dillsborough, N. C.

- 1 Roof Rat.

MORGAN DAVIS, Staten Island, N. Y.

- 1 Albino Deer, Adirondacks, N. Y.

DEPARTMENT OF PUBLIC PARKS, New York City.

- 25 Monkeys, 1 Lemur, 1 Leopard, 1 Ocelot, 1 Persian Cat, 1 Coati,  
    1 Kinkajou, 1 Mongoose, 9 Foxes, 1 Skunk, 2 Raccoons, 15  
    Deer, 5 Antelopes, 4 Nylghaus, 1 Bison, 1 Zebu, 3 Sheep, 1 Goat,  
    1 Camel, 1 Woodchuck, 3 Agoutis, 1 Manatee, 1 Kangaroo, 3  
    Opossums. Total, 84 specimens, received in the flesh, from the  
    Central Park Menagerie.
- 2 Harbor Seals, received in the flesh, from the Aquarium, Battery  
    Park.

LIEUT. G. F. EMMONS, U. S. N.

- 1 *Ursus emmonsii*.

MRS. ELIZA FINK, New York City.

- 1 Squirrel Monkey.

MRS. A. M. GOOD, New York City.

- 1 Chinese Lapdog.

WILLIAM R. GRACE, New York City.

- 1 Sperm Whale jaw, from west coast of Africa.

WALTER W. GRANGER, New York City.

- 37 Small Mammals, from South Dakota.

JOSEPH GRINNELL, Pasadena, Cal.

- 2 Shrews, from Alaska.

- FRANK H. LATTIN, Albion, N. Y.  
3 Small Mammals, from Labrador.
- CAPT. MAITLAND, New York City.  
1 Sacred Bull.
- JAMES MARTAIN, New York City.  
1 Red Bat.
- DR. EDGAR A. MEARNs, U. S. A.  
79 Small Mammals, from New York, Arizona and Minnesota.
- FRANCIS C. NICHOLAS, New York City.  
5 Mongooses; 59 Bats; all from Jamaica, W. I.
- R. B. PRITCHARD, Middle Granville, N. Y.  
Subfossil skull of a Caribou.
- WILLIAM RICHARDSON, New York City.  
1 Muskrat.
- J. ROWLEY, JR., New York City.  
1 Wood Hare.
- DR. LEWIS NATHANIEL SHIELDS, New York City.  
Skull of Rocky Mountain Sheep, Salmon City, Idaho.
- MATTHEW VAN SICLEN, Cornwall-on-Hudson, N. Y.  
1 Brown Bat.
- ALBERT SMITH, New York City.  
5 Small Mammals.
- Miss GERTRUDE TERRY, Austin, Texas.  
1 Flying Squirrel, from Texas.
- WILLIAM WALLACE, New York City.  
2 Pigs; 2 Horses.
- —. WOMBWELL.  
1 Water Buffalo.
- CURTISS C. YOUNG, Brooklyn, N. Y.  
7 Small Mammals, from Province of Quebec.

## DEPARTMENT OF BIRDS.

- EDWARD D. ADAMS, New York City.  
1 Gyrfalcon, with trappings for hawking.
- DR. FRANZ BOAS, New York City.  
5 Bird skins, from British Guiana.
- WILLIAM H. BUCKHOUT, New York City.  
1 Starling.
- ALBERT B. CARR, Trinidad, B. W. I.  
1 *Xenops rutilus*.
- S. H. CHUBB, New York City.  
1 Ptarmigan, 2 nests of Marsh Wren, 1 nest of Cliff Swallow.
- Miss ISABELLA VACHÉ COX, New York City.  
Breast and wings of Albatross.
- Mrs. A. C. DAVENPORT, Brattleboro, Vt.  
1 Nest of Wood Thrush.
- Miss K. L. DAVIS, New York City.  
1 Canary.

## DEPARTMENT OF PUBLIC PARKS, New York City.

1 Raven, 3 Crows, 9 small birds, 17 Parrots, 9 Hawks, 10 Owls, 1 Vulture, 6 Pheasants, 5 Quails, 1 Peacock, 2 Herons, 2 Bitterns, 1 Dove, 2 Curassows, 1 Gallinule, 1 Rail, 3 Flamingoes, 1 Goose, 3 Swans, 1 Duck, 1 Tern, 2 Ostriches. Total, 88 specimens, received in the flesh, from the Central Park Menagerie.

## WILLIAM DUTCHER, New York City.

5 Eider Ducks, 1 Dovekie, and 39 small birds, from vicinity of New York City.

## LIEUT. G. T. EMMONS, U. S. N.

60 Bird skins, from Alaska.

## H. A. GAYLORD, Pasadena, Cal.

1 Albino Western Chipping Sparrow.

## S. N. H. GALLAND, New York City.

1 Japanese Nun Finch, 1 Nonpareil, 3 other cage Finches.

## WALTER W. GRANGER, New York City.

5 Bird skins.

## HENRY HALES, Ridgewood, N. J.

2 Birds' nests.

## MISS A. HUGHES, Monmouthshire, England.

3 Bird skins, 240 eggs, from Guiana.

## MISS JACKSON, Brooklyn, N. Y.

2 Pheasants, 2 Grouse, 2 Quails, 1 Woodcock.

## LINNÆAN SOCIETY OF NEW YORK.

The Alfred Marshall Collection, consisting of 330 bird skins, and a large collection of birds' eggs, mostly from Long Island, N. Y.

## DR. EDGAR A. MEARNs, U.S.A.

1 *Sterna fuliginosa*, 1 *Ammodramus caudacutus nelsoni*, from Highland Falls, N. Y.

## FRANCIS C. NICHOLAS, New York City.

30 Eggs of Sea Birds, from Jamaica.

## MICHAEL NULTY, New York City.

3 Linnets.

## W. H. PHELPS, Cambridge, Mass.

80 Bird skins, from Venezuela.

## REV. R. B. POST, Orange, N. J.

1 Herring Gull.

## J. M. REDFIELD, New York City.

1 Cedarbird.

## LIEUT. WIRT ROBINSON, U.S.A., Cambridge, Mass.

1 *Doleromyia pallida* Richm.

## F. D. ROOSEVELT, Hyde Park, N. Y.

10 Pine Grosbeaks.

## J. ROWLEY, JR., New York City.

1 Thrush, 2 Tanagers, 1 Woodpecker.

## F. L. ST. JOHN, New York City.

1 Parrot.

## F. C. SCHNEIDER, Jamaica, L. I.

1 Thrush, 1 Shore Lark.

- OTTO A. SHREEDER, New York City.  
 1 Blue Heron, 1 Woodpecker, 1 Marsh Hawk.
- ALBERT SMITH, New York City.  
 545 Bird skins, 75 sets of eggs; from New York, Florida, Texas and Colorado.
- BENJAMIN STRONG, New York City.  
 1 Purple Finch.
- HON. JOHN S. WISE, Richmond, Va.  
 1 Robin Snipe.
- A. C. ZABRISKIE, New York City.  
 1 Sparrow.

## DEPARTMENT OF REPTILES AND FISHES.

- HENRY BUCH, New York City.  
 1 Boa Constrictor.
- MRS. FREDERIC DE CAPET, New York City.  
 1 Fer de Lance, from Martinique, W. I.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
 2 Alligators, 1 Gila Monster, 3 young Rattlesnakes, from Central Park Menagerie. Total, 6 specimens  
 25 Fishes in alcohol; 1 Alligator Gar, 2 Catfish, 1 Sturgeon, 13 Trout, in the flesh; all from the Aquarium. Total, 42 specimens.
- R. L. DITMARS, New York City.  
 1 Corn Snake, 1 Prairie Rattlesnake, 1 Gopher Snake, 1 Black Snake, 1 *Coluber boddaerti* from Trinidad, and 16 Batrachians and Reptiles from Europe.
- WILLIAM E. DODGE, New York City.  
 1 Trout, from Scotland.
- MISS A. HUGHES, Monmouthshire, England.  
 16 Reptiles' eggs, from Guiana.
- M. DE LIPMAN, New York City.  
 3 Snakes, from east coast of Nicaragua.
- GEORGE H. MACKAY, Boston, Mass.  
 6 Toads, from Muskeget Isl., Mass.
- PROF. E. S. MEEK, Fayetteville, Ark.  
 2 Jars of Fishes.
- FRANCIS C. NICHOLAS, New York City.  
 1 Yellow Snake and 5 fishes, from Jamaica, W. I.
- W. K. PARMALEE, New York City.  
 20 North American Turtles, from various localities.
- MR. SAVAGE.  
 1 Lizard.
- F. D. SCOTT, London, England.  
 1 Python, from Madras, India.
- WILLIAM L. SHERWOOD, New York City.  
 19 Salamanders, from vicinity of New York City.

## DEPARTMENT OF ENTOMOLOGY.

MORRIS K. JESUP, New York City.

15 Water Color Illustrations of Insects Injurious to Forest and Shade Trees.

MRS. A. A. BRADFORD, Lenox, Mass.

A collection of about 5000 insects, formed by the late George Dexter Bradford.

FRANCIS CHILD NICHOLAS, New York City.

1 Example of *Papilio homerus*, from Jamaica, W. I.  
 7 Nests of the Trap-door Spider, " " "  
 Specimens of Wasps' nests (*Polistes*), " " "  
 3 Large Termites' nests, " " "  
 Board destroyed by Termites, " " "  
 A collection of about 1000 insects, " " "  
 Borings of Carpenter Bee, from U. S. Colombia.  
 Specimens of " " " " " "

LADY HENRY ARTHUR BLAKE, Kingston, Jamaica, W. I.

Several Beetles, from Jamaica, W. I.

JAMES ANGUS, New York City.

4 Large Hornets' nests, from New York.

WILLIAM SCHAUS, Twickenham, England.

A collection of about 750 Butterflies from different parts of the world.  
 Specimens of Hemiptera, Orthoptera, etc., from Venezuela.  
 Several Wasp nests, from Mexico.

DR. FRANK ABBOTT, New York City.

1 Large Hornet's nest, from Kentucky.

FRED. H. COMSTOCK, New York City.

1 Nest of Paper Wasp (*Vespa*), from Keene Valley, N. Y.

DR. WILLIAM D. GRANGER, Bronxville, N. Y.

1 Pink Katydid, from New York.

MISS HUGHES, Monmouthshire, England.

A collection of unmounted Butterflies, from British Guiana, S. A.

A. H. REMPEN, New York City.

A collection of unmounted Butterflies, from Brazil.

JOHN ALVIN YOUNG, New York City.

Specimens of a Beetle injurious to coffee, from Java.

ASA HEINEMANN, New York City.

Samples of Silk Cocoon, from Italy.

L. H. JOUTEL, New York City.

Specimen of Board injured by Beetles.

FRANK WIGGINS, Los Angeles, Cal.

Specimens of Chinese Silk Cocoons, raised in Los Angeles, Cal.

J. M. WATT, Dept. Agriculture, Washington, D. C.

Specimens of Silk Cocoons.

WM. BEUTENMÜLLER, New York City.

Specimens of Chinese Silk Cocoons raised in New York City.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

HANDEL T. MARTIN.

6 Skeletons of Mosasaurs, from the Cretaceous of Kansas.

CHARLES EARLE.

Casts of teeth of Hyrachyus and Lophiodon, from specimens in the Paris Museum.

## DEPARTMENT OF ANTHROPOLOGY.

J. PIERPONT MORGAN, New York City.

The Garces collection of gold, silver, copper and bronze objects; pottery vessels, wooden vases and garments from prehistoric sites on the islands and shores of Lake Titicaca in Peru and Bolivia; shell and feather work, consisting of collars, bag, small feather poncho and feather head plumes, from the ruins of Gran Chimú, Peru.

DR. P. SCHELLHAS, Steinau, Germany.

Small terra-cotta bas-relief of human figure, from ruins at Chajcar, near Cobán, Guatemala.

GEORGE F. KUNZ, New York City.

Specimens of Jadeite, from Tammaw, Burmah.

PROF. A. S. BICKMORE, New York City.

3 Bromide enlargements of the Ruins of Mitla, Mexico.

JAMES MORGAN, Georgetown, British Guiana.

19 Ethnological specimens, from the Mojave Indians of Arizona and the Accawai Indians of British Guiana.

H. B. WILLIAMS, Buffalo, N. Y.

Stone celt, found in Buffalo.

I. B. SNIFFIN, New York City.

3 Stone implements, from Greenwich, Conn., and one from Rye, N. Y.

FREDERICK WILLIAM FRANKLAND, JR., New York.

1 Chipped stone, found by donor in Longcroft, England.

ANTONIO H. REMPEN, Para, Brazil.

Ethnological specimens, from Brazil.

ALBERT KEEN HUNTINGTON, Maryland.

28 Chipped stone arrow points, from shores of Patuxent River, Calvert Co., Md.

WALTER CLARK, New York City.

9 Stone implements, from Shinnecock Hills, Long Island.

WALTER CLARK and FRANCIS WATTSON, New York City.

133 Stone implements, from Canoe Place, Long Island.

EUGENE KOOP.

Canoe from Samoa.

Mrs. JOHN CROSBY BROWN, New York City.

Musical instrument, from Asia.

Miss OLIVE M. EWING and Mrs. N. L. BRITTON, New York City.

Copper knife, from Northern Michigan.

FREDERIC E. CHURCH, New York City.

Wooden tray, pottery vessel and bronze figures, from Mexico.

## APPLETON STURGIS, New York City.

Collection of photographs of natives of the Pacific Islands.

## B. TALBOT B. HYDE and F. E. HYDE, JR., New York City.

Archæological collection, from explorations of ancient pueblos in New Mexico.

## THE DUKE OF LOUBAT.

Archæological collection, from the State of Oaxaca, Mexico.

Series of casts of the original sculptures in the Berlin Ethnographical Museum, from the Ruins of Santa Lucia Cozumahualpa, Guatemala.

Photographic copy of the "Codex Legislatif," an ancient Aztec book on maguey paper, preserved in the Library of the Chamber of Deputies, Paris.

A *fac-simile* of the "Codex Vaticanus, No. 3773," an ancient Aztec book on deer skin, preserved in the Vatican Library, Rome.

A series of 51 casts of Mexican and Central American sculptures, known as the Charnay casts.

## MORRIS K. JESUP, New York City.

Ethnological collection, from the Eskimo of Greenland, made by Lieutenant R. E. Peary.

## THE PEABODY MUSEUM, Harvard University.

Cast of head in serpent's jaw, from Uxmal, Yucatan.

Moulds of lower portion of the walls of the sculptured chamber, ruins of Chichen-Itza, to complete the Charney casts of the wall.

## THE DUKE OF LOUBAT, W. C. WHITNEY and MORRIS K. JESUP, subscribers in behalf of the American Museum to the Expedition of the Peabody Museum.

20 Stone sculptures, from the ruined buildings of the prehistoric city of Copan; the contents of a chamber under a fallen stela; a carved head in jadeite, and several pottery vessels from another chamber. Potsherds and chipped obsidian, all from the Ruins of Copan. (Also, to come, a series of casts from moulds of steps of the hieroglyphic stairway of the great pyramid.)

## FRANCIS C. NICHOLAS, New York City.

2 Gold pendants of human form, from Antioquia, Colombia, S. A.;  
2 objects of jadeite, from Costa Rica. Potsherds, shells and bones, from a shell-heap, Island of Jamaica.

## STANSBURY HAGAR, Brooklyn, N. Y.

Micmac game, from Nova Scotia.

## EXCHANGES.

## LIBRARY.

H. H. & C. S. BRIMLEY, Raleigh, N. C.  
37 Natural History Pamphlets.

## MINERALOGICAL DEPARTMENT.

- 1 Large slab of green Cyanite, from Connecticut.  
1 Small block of gray " "  
2 Specimens of Pyrite concretions, from Washington, N. J.  
1 " Mexican Onyx (polished face), from Pueblo, Mexico.  
1 " Caswellite (altered Biotite).  
1 " green Mica.  
1 " Topaz, from Japan.  
1 " Cats-eye corundum, from North Carolina.

## CONCHOLOGICAL DEPARTMENT.

- 2 Specimens of *Unio floridensis* Wright, from Florida.  
2 " " *friersonii* " " Louisiana.  
1 " " *tuberculatus*, ground and polished.  
1 " " *solidus*, " " "

## DEPARTMENT OF MAMMALS.

- 1 Florida Panther, 2 Polar Bears (cubs); 73 small Mammals, from Bexar Co., Texas; 1 *Ctenolestes obscurus* Thomas.

## DEPARTMENT OF BIRDS.

- 21 Specimens, from South America.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

## MUNICH UNIVERSITY.

Collection of 360 specimens of European fossil mammals and birds. .

## BRITISH MUSEUM.

Collection of 16 specimens of casts of European fossil mammals.

## OXFORD MUSEUM.

Enlarged reproductions of the jaw of Amphitherium and the young jaws of Onithorhynchus.



## PURCHASES.

## LIBRARY.

- American Agriculturist. Vols. 4-6, 24. 1845-1847, 1865.  
 American Angler. Vols. I-VI. 1881-1884.  
 American Anthropologist. Vol. IX. 1896.  
 American Geologist. 1896.  
 American Journal of Horticulture, etc. Vols. I, II, VI. 1867, 1869.  
 American Journal of Science and Arts. 1896.  
 American Naturalist. 1896.  
 Annals and Magazine of Natural History. 1896.  
 Biologia Centrali Americana. Nos. 125-131. 1896.  
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## GEOLOGICAL DEPARTMENT.

### THROUGH MUSEUM EXPEDITIONS.

- A few fossil Melanias, from Barrel Springs, Wyo., collected by O. A. Petersen.

## DEPARTMENT OF MAMMALS.

- 1 Giraffe, 1 Pronghorn Antelope, fawn; 2 Virginia Deer (doe and fawn); 4 Varying Hares, 85 small Mammals, from Bexar Co., Texas; 28 small Mammals, from Peru.

## THROUGH MUSEUM EXPEDITIONS.

38 Specimens from Yucatan, 8 from Maine, 42 from New Mexico, 42 from Greenland, including 9 Caribou, 2 Polar Bears, 2 Seals, and 22 skulls and skeletons, chiefly of Walrus and small Whales.

## DEPARTMENT OF BIRDS.

## THROUGH MUSEUM EXPEDITIONS.

185 Specimens from Yucatan, 36 specimens from Maine, 162 skins, 5 nests, and about 100 eggs, from Greenland.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

## THROUGH MUSEUM EXPEDITION UNDER DR. WORTMAN.

*Puerco Collection* of 165 specimens, including the jaw and fore arm and foot of *Psittacotherium* (ancestor of the great Ground Sloths of South America), the nearly complete skeleton of *Euprotogonia* (ancestor of the hoofed animals), and the lower jaw of *Pachyæna* (new).

*Wasatch Collection* of 130 specimens, including two fine skulls of *Coryphodon*, several imperfect skulls, and materials for mounting the complete skeleton.

*Wind River Collection* of 35 specimens.

## BY PURCHASE.

H. T. MARTIN, a fine skull and part of skeleton of *Platycarpus*, from the Cretaceous of Kansas.

J. W. GIDLEY.

8 Specimens of skulls and skeletons of mammals, from the Oligocene (White River) of Nebraska.

A. HAUFF, Württemberg, Germany.

2 Skeletons of Ichthyosaurs, from the Jurassic Beds.

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ROYAL MUSEUM OF ST. PETERSBURG, through Dr. Bianchi.

3 Large Photographs.

JARDIN DES PLANTES MUSEUM OF PARIS, through Prof. Gaudry.

2 Large Lithographs.

## DEPARTMENT OF ANTHROPOLOGY.

## THROUGH MUSEUM EXPLORATIONS AND EXPEDITIONS.

JAMES TEIT, Spence's Bridge, B. C.

Ethnological specimens from Thompson River Indians, British Colombia, consisting of garments, household utensils, implements, etc., with full descriptions of their manufacture and use, and an account of the history of the tribe.

## DR. CARL LUMHOLTZ.

Ethnological specimens, from the tribes of the Sierra Madre Mountains in the States of Durango, Jalisco and Territory of Tepic, Mexico: consisting of garments, household utensils, implements and objects relating to their religions.

Archæological specimens, from the Territory of Tepic, consisting of vases, shell ornaments, copper bells and human skeletons. Also photographs.

## ERNEST VOLK, Trenton, N. J.

26 Boxes of archæological specimens, from his excavations in the Delaware Valley, Trenton, N. J.

## DR. A. F. BANDELIER.

Plans and photographs of Peruvian and Bolivian ruins.

## HARLAN I. SMITH, New York City.

Archæological specimens, from New York City and Tottenville, Staten Island.

## M. H. SAVILLE, New York City.

Archæological collection, from the Valley of Mexico.

## BY PURCHASE.

243 Ethnological specimens, from Pacific Islands, consisting of dresses, spears, masks, idols, etc.

A collection of ethnological specimens, from Australia and the Pacific Islands.

20 Ethnological specimens, from various places.

7 Specimens, from the eastern Eskimo.

3 Ethnological specimens, from Melanesia.

An ethnological collection, from the New Hebrides. Also 72 photographs from the New Hebrides; and 12 photographs of Maya ruins, States of Chiapas and Yucatan, and northern Guatemala.

3 Ornaments, from New Guinea.

Collection of stone implements, from Alaska.

A small Eskimo collection, from Labrador.

Ethnological collection, from British Columbia and Alaska.

67 Ethnological specimens, from the Eskimo of Alaska.

Ethnological specimens, from the Fiji Islands.

Ethnological specimens, from the Ojibwa Indians.

## MINERALOGICAL DEPARTMENT.

## BY PURCHASE.

1 Group of doubly terminated Quartz crystals, from Lincoln Co., N. C.

4 Specimens of Thaumassite, from West Paterson, N. J.

2 " Chabazite and Pectolite, from West Paterson, N. J.

1 " Calcite, Quartz and Chabazite, " " " "

1 " Apophyllite and Heulandite, " " " "

1 " Heulandite and Pectolite, " " " "

1 " Quartz.

1 " Granular Gold on Quartz conglomerate, from Sebastopol, Nevada Co., Cal.

1	Specimen of Silver (in two pieces) on serpentinous slate, from Tombstone Mine, Ariz.	
3	“ Silver, from three different mines at Aspen, Colo.	
1	“ Azurite (polished slab), from Morenci, Ariz.	
2	“ Cuprite (Chalcotrichite), “ “ “	
1	“ Azurite and Malachite, with iron oxide (Limonite) in Stalactites, from Bisbee, Ariz.	
3	“ Helictites, “ “ “	
1	Polished slab of Carbonate of Lime (Calcite), from floor of cave at Bisbee, Ariz.	
1	Polished Stalactite, from Bisbee, Ariz.	
1	“ section of Stalagmite, “ “ “	
1	Large slab of crystallized Azurite, “ “ “	
1	Mammoth Stalagmite, “ “ “	
1	Large “curtain” Calcite, “ “ “	
1	Specimen of Gold in Limonite, from Aspen, Colo.	
1	“ “ Quartz, “ “ “	
1	“ “ Fluorite, Bromyrite and Sylvanite, from Aspen, Colo.	
1	Slab of Meteoric Iron (about 5 pounds), from Cañon Diablo, N. Mex.	
1	“ “ (455 grams), from El Capitan, N. Mex.	
1	Specimen of Smithsonite, from Greece.	
2	“ Calcite, from Joplin, Mo.	
2	“ “ Dalton Furness, England.	

GEM DEPARTMENT.

BY PURCHASE.

1 Amethyst, from Deer Hill, Stoneham, Conn.  
 1 " " Rabun Gap, N. C.  
 1 Iolite, from Haddam, Conn.  
 1 Yellow Beryl, from Coosa Co., Ala.  
 2 Pale yellowish-green Beryls, from near New Brunswick, Me. Crystals.  
 1 " " " " " " Cut gem.  
 1 Pale greenish-blue Sapphire, from Montana.  
 1 Green Tourmaline, from Mt. Mica, Paris, Oxford Co., Me.  
 1 Topaz, from Cheyenne Mt., Colo.  
 1 Spheue, from Tilly Foster Mine, N. Y.  
 1 Williamsite, from Lancaster Co. (Texas Township), Pa.  
 1 Turquoise, from Los Cerillos, N. Mex.  
 12 Unio Pearls, various colors, from Wisconsin Rivers.  
 1 Tourmaline, from Mt. Mica, Me.  
 23 Nassau Pearls, from *Strombus gigas*, from Bahama shoals, off Florida Coast.  
 1 Diamond Crystal, from Kimberley Mines, Africa. Natural form.  
 1 Ruby (opaque pigeon blood color), from Alexander Co., N. C.  
 2 Discs of Labradorite, from Labrador.  
 A facettcd ball of Quartz, from Madagascar.  
 19 Tourmaline crystals, from Haddam Neck, Conn.  
 3 Beryls, from Haddam Neck, Conn.  
 2 Lepidolites, " " "  
 1 Utahlite, from Utah.  
 1 Block of Rhodochrosite, from Park Co., Colo.  
 1 Opal, Queretaro, Mexico.

## MARINE INVERTEBRATE DEPARTMENT.

## BY PURCHASE.

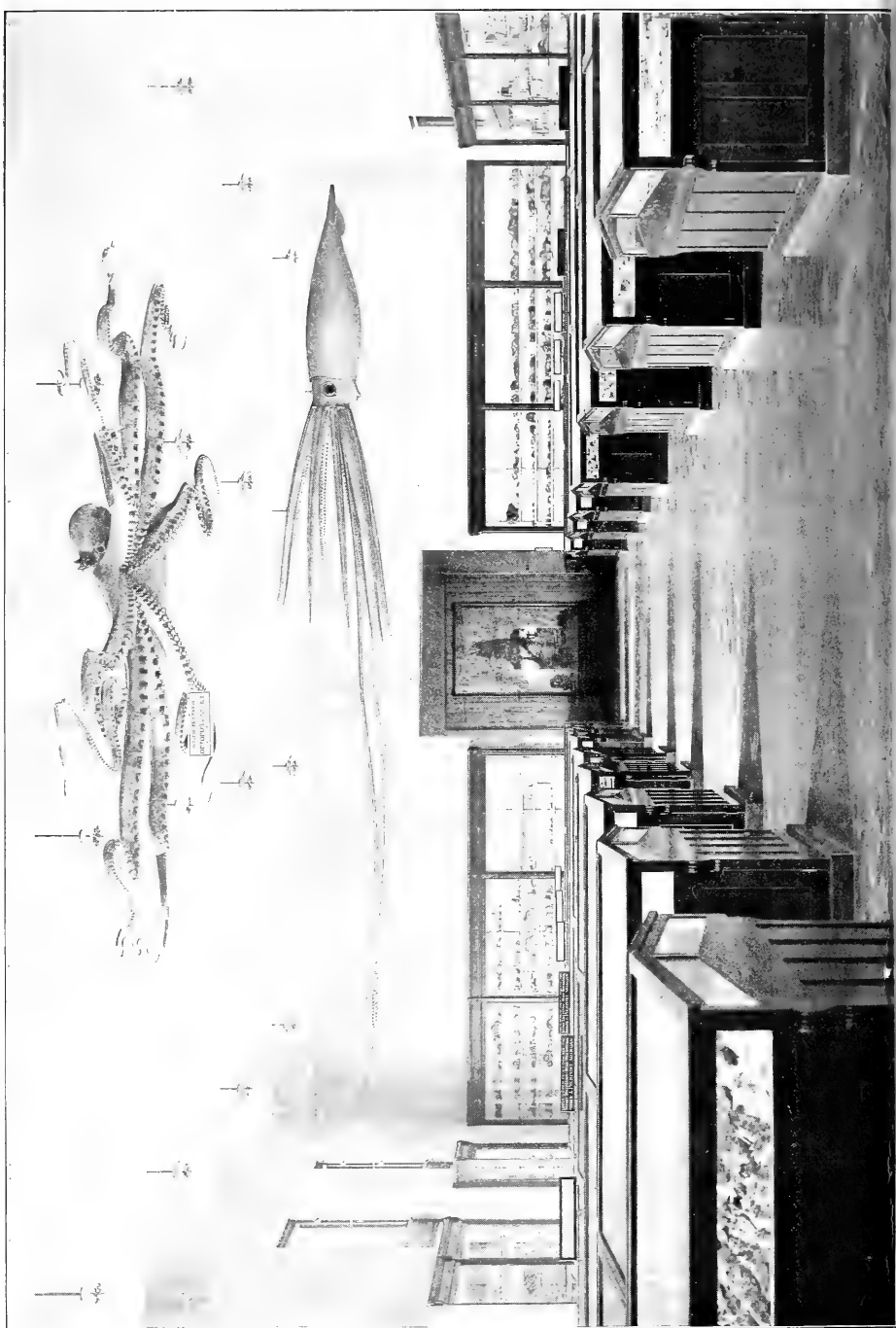
1	Specimen of	<i>Stigmatella corticata</i> Lind.,	from Nassau, N. P. Bahamas.				
3	"	<i>Tuba plicifera</i> Hyatt.,	" " " "	"	"	"	"
2	"	<i>Dendrogyra cylindricus</i> Eh.,	" " " "	"	"	"	"
3	"	<i>Dichocænia ananus</i> Dana,	" " " "	"	"	"	"
2	"	" <i>reticulata</i> Dana,	" " " "	"	"	"	"
1	"	" <i>porcata</i> Verrill,	" " " "	"	"	"	"
1	"	<i>Eusmilia fastigiata</i> ,	" " " "	"	"	"	"
1	"	<i>Oculina diffusa</i> ,	from South Florida.				
1	"	<i>Hippospongia fistulosa</i> Hyatt,	Nassau, N. P. Bahamas.				
1	"	" <i>gossypina</i> var <i>rosea</i> ,	" " "				

## DEPARTMENT OF ENTOMOLOGY.

## BY PURCHASE.

- 1 Old fashioned Bee Hive.  
 Transformations of the Honey Bee.  
 Section of a tree, containing Wild Bees' Nest.







# INCORPORATION.

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Charles A. Dana, Joseph H. Choate, and Henry Parish, and such persons as may hereafter become members of the corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History ; of encouraging and developing the study of Natural Science ; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction and recreation.

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension, and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules, and Regulations. Until an election shall be held pursuant

to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared to be the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may purchase and hold, or lease, any real and personal estate necessary and proper for the purposes of its incorporation, provided they shall not hold real estate which shall exceed one hundred thousand dollars in value.

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes.

SEC. 5. This Act shall take effect immediately.

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STATE OF NEW YORK, }  
OFFICE OF THE SECRETARY OF STATE. } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. S.]                      Given under my hand and seal of Office at the City of Albany,  
this fourteenth day of April, in the year one thousand eight  
hundred and sixty-nine.

D. WILLERS, JR., *Deputy Secretary of State.*





# CONTRACT

## WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING.

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THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth :

*Whereas*, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and

*Whereas*, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last-named act, and by

the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

*Whereas*, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its Museum, Library and Collections, and carry out the objects and purposes of the said party of the second part.

Now, therefore, it is agreed by and between the said parties as follows, namely:

*First*.—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

*Secondly*.—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

*Thirdly*.—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in, said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the

exclusive use of the whole of said building, subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term hereby granted, or until a surrender thereof, as herein provided.

*Fourthly.*—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A.M. until half an hour before sunset, under such rules and regulations as the party of the second part shall, from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its Museum, Library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

*Fifthly.*—That the Museum, Library and collections, and all other property of the said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

*Sixthly.*—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the operations

and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

*Seventhly.*—That said party of the first part shall have, at all times, access to every part of said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

*Eighthly.*—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void, and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party of the second part to remove its property therefrom), may reënter,



and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything herein contained to the contrary notwithstanding.

*Ninthly.*—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly cancelled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said parties, or their successors, anything herein contained to the contrary in anywise notwithstanding.

*In witness whereof*, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of

D. PORTER LORD.

JAMES F. WENMAN,

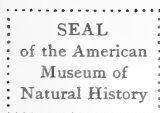
*President Department of Public Parks  
of the City of New York.*

WILLIAM IRWIN,

*Secretary Department of Public Parks  
of the City of New York.*

ROBERT L. STUART,

*President American Museum of Natural History.*



STATE OF NEW YORK, }  
City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York ; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

W. C. BESSON,

[SEAL.]

(73) *Notary Public N. Y. Co.*

STATE OF NEW YORK, }  
City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

W. C. BESSON,

[SEAL.]

(73) *Notary Public N. Y. Co.*

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A.M., and examined.

Witness my hand and official seal,

FREDERICK W. LOEW,

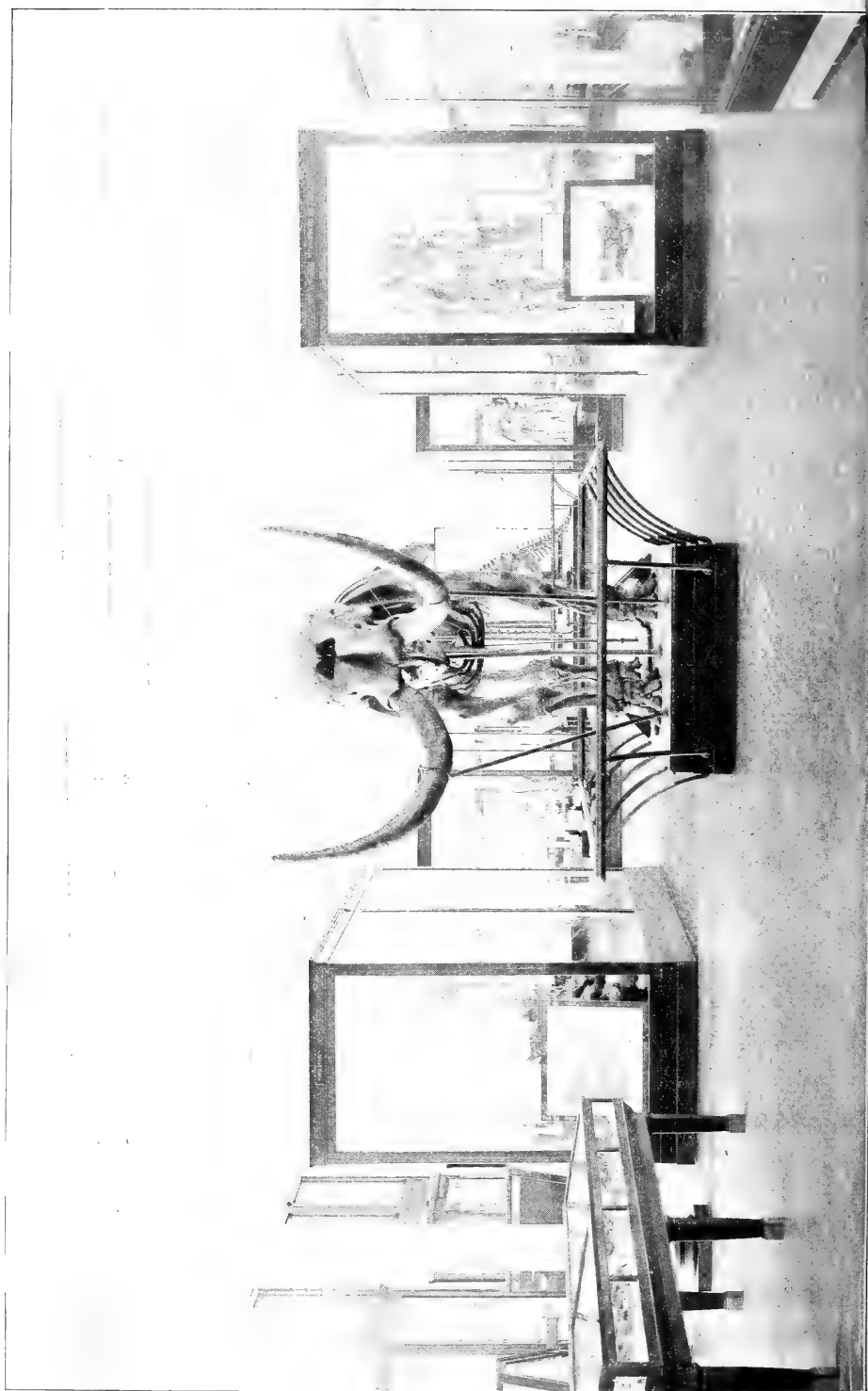
[SEAL.]

*Register.*

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."

June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."





CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

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ARTICLE I.

This Corporation shall be styled the AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II.

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, shall be the Trustees to manage the affairs, property, and business of the Corporation, and in case of the death, accepted resignation, or removal from the State of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever

requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

#### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, and a Treasurer, all to be elected from the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees : an Executive Committee, an Auditing Committee, a Finance Committee and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other Committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

#### ARTICLE V.

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The office of Secretary and of Assistant Treasurer may be held by the same person.

## ARTICLE VI.

The Executive Committee shall consist of nine, of whom the President, First and Second Vice-Presidents, and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four, and five years, respectively, and the terms for which those drawing the two, three, four, and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property of the Museum; and shall have power to purchase, sell, and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two

thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also have the books of the Museum duly audited at least once in six months by an authorized public accountant to be selected by them.

#### ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name and to take all proper measures to provide means for its support ; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

#### ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

#### ARTICLE X.

The President shall be a member, *ex-officio*, of all standing committees.

#### ARTICLE XI.

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact



current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

## ARTICLE XII.

By-Laws may from time to time be made by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

## ARTICLE XIII.

The contribution of \$1000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

## ARTICLE XIV.

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life,

## ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees ; or at a special meeting called for this purpose, nor by the votes of less than a majority of all the Trustees ; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

Patrons, giving \$1000, are each entitled to one Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket, and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket, and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket, and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

### III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

## IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

## V.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

## VI.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

## VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VIII.

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.

## PATRONS.

*By the Payment of One Thousand Dollars.*

MORRIS K. JESUP.  
 ROBERT L. STUART.\*  
 Miss C. L. WOLFE.\*  
 ROBERT COLGATE.\*  
 FREDERIC W. STEVENS.  
 PERCY R. PYNE.\*  
 JAMES M. CONSTABLE.  
 JOHN B. TREVOR.\*  
 ADRIAN ISELIN.  
 HUGH AUCHINCLOSS.\*  
 JOSEPH W. DREXEL.\*  
 WILLIAM E. DODGE.\*  
 JOHN D. WOLFE.\*  
 ABRAM S. HEWITT.  
 C. VANDERBILT.  
 J. PIERPONT MORGAN.  
 CHARLES LANIER.  
 D. JACKSON STEWARD.  
 EDWARD CLARK.\*  
 A. G. PHELPS DODGE.  
 JAMES BROWN.\*  
 A. T. STEWART.\*  
 S. WHITNEY PHENIX.\*  
 BENJAMIN H. FIELD.\*  
 WILLIAM T. BLODGETT.\*  
 OLIVER HARRIMAN.  
 ROBERT BONNER.  
 JAMES B. COLGATE.  
 ALEXANDER STUART.\*  
 WILLIAM A. HAINES.\*  
 BENJAMIN AYMAR.\*  
 RICHARD ARNOLD.\*  
 JOSEPH H. CHOATE.  
 JONATHAN THORNE.\*  
 Miss PHEBE ANNA THORNE.  
 D. O. MILLS.  
 JOHN A. C. GRAY.  
 HEBER R. BISHOP.  
 CHAS. G. LONDON.\*  
 WILLIAM E. DODGE.

PETER COOPER.\*  
 WILLIAM H. ASPINWALL.\*  
 B. H. HUTTON.\*  
 J. TAYLOR JOHNSTON.\*  
 D. N. BARNEY.\*  
 I. N. PHELPS.\*  
 JAMES STOKES.\*  
 D. WILLIS JAMES.  
 EDWARD MATTHEWS.  
 WILLIAM T. GARNER.\*  
 JAMES LENOX.\*  
 A. H. BARNEY.\*  
 COLEMAN T. ROBINSON.\*  
 BENJAMIN B. SHERMAN.\*  
 JAMES R. ELY.  
 JONAS G. CLARK.  
 JOHN ANDERSON.\*  
 JOHN JACOB ASTOR.\*  
 WILLIAM WALDORF ASTOR.  
 CATHERINE L. SPENCER.\*  
 JAS. GORDON BENNETT.  
 CYRUS W. FIELD.\*  
 ALEX. H. BROWN, M.P.  
 J. A. BOSTWICK.\*  
 FREDERICK BILLINGS.\*  
 Mrs. ROBERT L. STUART.\*  
 JESSE SELIGMAN.\*  
 THEO. ROOSEVELT.  
 OSWALD OTTENDORFER.  
 J. HAMPDEN ROBB.  
 J. F. LOUBAT.  
 H. J. JEWETT.  
 WM. D. SLOANE.  
 D. G. ELLIOT.  
 LIEUT. G. T. EMMONS, U.S.N.  
 C. P. HUNTINGTON.  
 GEO. W. VANDERBILT.  
 EDWARD D. ADAMS.  
 WILLIAM C. SCHERMERHORN.  
 JOHN J. CROOKE.

\* Deceased.

HENRY SELIGMAN.  
 RICHARD T. WILSON.  
 JOHN E. PARSONS.  
 FRANCIS O. MATTHIESSEN.  
 A. J. FORBES-LEITH.  
 GEORGE BLISS.\*  
 M. C. D. BORDEN.  
 ARCHIBALD ROGERS.  
 GEORGE C. COOPER.\*  
 MRS. M. SCHUYLER ELLIOT.  
 APPLETON STURGIS.  
 THEODORE A. HAVEMEYER.  
 WILLIAM C. WHITNEY.  
 GEORGE G. HAVEN.  
 JAMES BAKER SMITH.  
 CYRUS W. FIELD, JR.\*  
 JAMES ANGUS.  
 HENRY VILLARD.  
 DR. WM. PEPPER.  
 AUSTIN CORBIN.\*  
 ANSON W. HARD.

GUSTAV E. KISSEL.  
 ELBRIDGE T. GERRY.  
 DR. EDGAR A. MEARNs, U. S. A.  
 JOHN D. CRIMMINS.  
 MRS. WM. H. OSBORN.  
 PROF. HENRY FAIRFIELD OSBORN.  
 JONATHAN THORNE.  
 VICTOR CORSE THORNE.  
 EDWIN THORNE.  
 JOEL WOLFE THORNE.  
 W. M. DONGAN DE PEYSTER.  
 HICKS ARNOLD.  
 J. PIERPONT MORGAN, JR.  
 WM. CHURCH OSBORN.  
 ALEXANDER I. COTHEAL.\*  
 WM. ROCKEFELLER.  
 B. TALBOT B. HYDE.  
 FREDERICK E. HYDE, JR.  
 L. P. DI CESNOLA.  
 GEORGE DEXTER BRADFORD.\*

## FELLOWS.

*By the Payment of Five Hundred Dollars.*

SAMUEL WILLETS.\*  
 ROBERT GORDON.  
 HOWARD POTTER.  
 C. V. S. ROOSEVELT.\*  
 CHARLES W. GRISWOLD.\*  
 SAMUEL F. B. MORSE.\*  
 RUTHERFORD STUYVESANT.  
 MEREDITH HOWLAND.\*  
 MARSHALL O. ROBERTS.\*  
 JOHN ALSTYNE.\*  
 O. B. POTTER.\*  
 HON. LEVI P. MORTON.  
 HANSON K. CORNING.\*  
 STEWART BROWN.\*  
 ABRAM DUBOIS.\*  
 TIFFANY CO.  
 LUCIUS TUCKERMAN.  
 ALFRED B. DARLING.\*

A. A. LOW.\*  
 RICHARD MORTIMER, JR.  
 THOS. A. VYSE, JR.  
 GEORGE G. GRAY.\*  
 GOUVERNEUR KEMBLE.\*  
 SAMUEL HAWK.\*  
 JOHN SNEDEN.\*  
 GEORGE BLISS.\*  
 R. A. WITTHAUS, M.D.  
 THOMAS BARRON.\*  
 GEORGE W. CASS.\*  
 CHARLES W. CASS.  
 H. M. SCHIEFFELIN.\*  
 PROF. WM. LIBBEY, JR.  
 ROBERT LENOX KENNEDY.\*  
 F. R. HALSEY.  
 CYRUS W. FIELD, JR.\*  
 H. M. FLAGLER.

\* Deceased.

D. B. IVISON.  
 H. McK. TWOMBLY.  
 HENRY G. MARQUAND.  
 JOHN T. TERRY.  
 JOSIAH M. FISKE.\*  
 ELLIOTT F. SHEPARD.\*  
 JOHN SLOANE.  
 JOHN D. ROCKEFELLER.  
 PHILLIPS PHOENIX.  
 LLOYD PHOENIX.  
 WM. H. HARBECK.\*  
 D. WOLFE BISHOP, JR.

CORTLANDT FIELD BISHOP.  
 WHEATON B. KUNHARDT.  
 SAMUEL P. AVERY.  
 JAMES H. JONES.  
 JAMES B. HAGGIN.  
 MRS. RICHARD P. DANA.  
 JAMES THOMSON.\*  
 AYMAR JOHNSON.  
 PHILIP SCHUYLER.  
 FRANCIS CHILD NICHOLAS.  
 MRS. JOSIAH M. FISKE.

## LIFE MEMBERS.

*By the Payment of One Hundred Dollars.*

JOHN E. ALEXANDRE.  
 RICHARD H. ALLEN.  
 CONSTANT A. ANDREWS.  
 MRS. BLANCHE L. ANDREWS.  
 B. G. ARNOLD.  
 JOHN JACOB ASTOR.  
 SAMUEL P. AVERY.  
 MRS. JAMES C. AYER.  
 MISS E. AYMAR.  
 JAMES A. BAILEY.  
 JAS. MUHLENBERG BAILEY.  
 DAVID BANKS.  
 HENRY I. BARBEY.  
 FORDYCE BARKER, M.D.\*  
 W. H. BEADLESTON.\*  
 GEORGE E. BELCHER, M.D.\*  
 C. M. BELL, M.D.  
 CORNELIUS N. BLISS.  
 A. K. BOLAN.  
 MRS. WM. H. BRADFORD.  
 HENRI M. BRAEM.  
 BENJAMIN BREWSTER.  
 CHAS. P. BRITTON.  
 ADDISON BROWN.  
 FRANK G. BROWN.\*  
 GEORGE H. BROWN.  
 JAMES M. BROWN.\*  
 JOHN L. CADWALADER.  
 MRS. ALEX. CAMERON.  
 CHAS. M. CAULDWELL, M.D.

ISAAC P. CHAMBERS.\*  
 C. W. CHAPIN, JR.  
 HENRY CHAUNCEY.  
 FREDERIC E. CHURCH.  
 HENRY CLEWS.  
 CHARLES L. COLBY.\*  
 W. W. COLE.  
 EDWARD COLGATE.\*  
 WILLIAM COLGATE.  
 MISS ELLEN COLLINS.  
 MRS. WILLIAM COMBE.  
 FRED. H. COMSTOCK.  
 WASHINGTON E. CONNOR.  
 CHARLES H. CONTOIT.  
 EDWARD COOPER.  
 ALEX I. COTHEAL.\*  
 S. D. COYKENDALL.  
 JAMES CRUIKSHANK.\*  
 A. DALRYMPLE.\*  
 CHAS. M. D'ACOSTA.\*  
 HENRY J. DAVISON.\*  
 THOMPSON DEAN.\*  
 ALBERT DELAFIELD.  
 F. W. DEVOE.  
 GEORGE B. DE FOREST.  
 S. DEJONGE.  
 J. H. DEMOTT.\*  
 PETER DOELGER.  
 NORMAN W. DODGE.  
 PETER DONALD.

\*Deceased.

E. J. DONNELL.  
 ANDREW E. DOUGLAS.  
 PROF. JAMES DOUGLAS.  
 R. G. DUN.  
 WM. BUTLER DUNCAN.  
 JAMES H. DUNHAM.  
 GEORGE EHRET.  
 AMBROSE K. ELY  
 EDWARD J. FARRELL.  
 CORTLANDT DE PEYSTER FIELD.  
 JOHN FITCH.  
 PROF. A. E. FOOTE.\*  
 JAMES FRASER.  
 FRANCIS P. FREEMAN.  
 SETH BARTON FRENCH.  
 GEORGE GARR.  
 WILLIAM H. GEBHARD.  
 THEODORE K. GIBBS.  
 PARKE GODWIN.  
 JAMES J. GOODWIN.  
 STEPHEN T. GORDON.\*  
 ANDREW H. GREEN.  
 JOHN GREENOUGH.  
 JOHN N. A. GRISWOLD.  
 FRANKLIN L. GUNTHER.  
 ALEX. HADDEN, M.D.  
 JOHN A. HADDEN.  
 JOHN P. HAINES.  
 RICHARD T. HAINES.\*  
 W. A. HAINES, JR.  
 MISS E. S. HAINES.  
 MRS. W. A. HAINES.  
 MISS L. P. HALSTED.  
 WILLIAM M. HALSTED.\*  
 WILLIAM GASTON HAMILTON.  
 BENJAMIN HART.  
 FREDERICK C. HAVEMEYER.\*  
 JACOB HAYS.  
 CHARLES C. HIBBARD.  
 MRS. E. HERRMAN.  
 VERY REV. E. A. HOFFMAN, D.D.  
 ALFRED M. HOYT.  
 MARK HOYT.\*  
 THEO. D. HOWELL.  
 MRS. FLORENCE HOWLAND.  
 WILSON G. HUNT.\*

C. P. HUNTINGTON.  
 FREDERICK E. HYDE.  
 W. B. ISHAM.  
 D. B. IVISON.  
 A. JACOBI, M.D.  
 MISS MARGARET JACOBI.  
 MISS LAURA JACOBI.  
 MISS C. O. JONES.  
 CHAS. H. KALBFLEISCH.\*  
 GEORGE KEMP.  
 RUDOLPH KEPPLER.  
 JOHN KING.  
 JOHN ALSOP KING.  
 A. C. KINGSLAND.  
 WM. M. KINGSLAND.  
 PERCIVAL KNAUTH.  
 GEORGE T. KNIGHT.  
 JAMES KNIGHT, M.D.\*  
 H. R. KUNHARDT, JR.  
 GEO. F. KUNZ.  
 WOODBURY G. LANGDON.  
 JOSEPH LAROCQUE.  
 JAMES M. LAWTON.\*  
 STEPHEN R. LESHER.\*  
 JAMES LOW.  
 SETH LOW, LL.D.  
 EDWARD LUCKEMEYER.  
 E. H. R. LYMAN.  
 ALEXANDER MAITLAND.  
 GODFREY MANNHEIMER.  
 H. G. MARQUAND.  
 PETER MARIE.  
 BRADLEY MARTIN.  
 WILLIAM C. MARTIN.\*  
 ALBERT MATHEWS.  
 JOHN J. MCCOOK.  
 JOHN T. METCALFE, M.D.  
 JACOB MEYER.  
 DR. A. B. MEYER.  
 CHARLES ADDISON MILLER.  
 A. G. MILLS.  
 ROBERT B. MINTURN.\*  
 ROWLAND G. MITCHELL, JR.  
 E. A. MOEN.  
 E. C. MOORE.\*  
 CHARLES MORAN.

\* Deceased.



J. PIERPONT MORGAN.  
 MANDEVILLE MOWER.  
 PERCY MUSGRAVE.  
 THOMAS B. MUSGRAVE.  
 W. B. NEFTEL, M.D.  
 H. VICTOR NEWCOMB.  
 W. D. NICHOLS.  
 WILLIAM NIVEN.  
 THOMAS H. O'CONNOR.  
 C. H. ODELL.  
 E. OELBERMANN.  
 H. O'NEILL.  
 A. O. OSBORN.\*  
 MRS. A. O. OSBORN.  
 JOHN C. OSGOOD.  
 HENRY PARISH.  
 JOHN E. PARSONS.  
 WILLIAM I. PEAKE.  
 ALFRED PELL.  
 Miss FRANCES PELL  
 GIFFORD PINCHOT  
 JAMES W. PINCHOT.  
 HENRY B. PLANT.  
 JOHN PONDIR.  
 HENRY A. V. POST.  
 GEORGE C. RAND.  
 A. A. RAVEN.  
 ISAAC H. REED.\*  
 J. W. REINHART.  
 ROBERT G. REMSEN.  
 AUGUSTE RICHARD.  
 GEORGE RICHARDS.  
 CHANDLER ROBBINS.  
 ALFRED ROELKER.  
 ARCHIBALD ROGERS.  
 FRANKLIN D. ROOSEVELT.  
 F. AUGUSTUS SCHERMERHORN.  
 SAMUEL B. SCHIEFFELIN.  
 JACOB H. SCHIFF.  
 MRS. E. KEEP-SCHLEY.  
 WM. F. SEBERT.  
 JAS. O. SHELDON.  
 ELLIOTT F. SHEPARD.\*  
 JOHN H. SHERWOOD.  
 I. H. SHOENBERGER.\*

CHAS. S. SHULTZ.  
 S. N. SOLOMON.  
 ALBERT SMITH.  
 HENRY MILFORD SMITH.  
 L. DINWIDDIE SMITH.  
 HENRY F. SPAULDING.\*  
 LOUIS STERN.  
 ALEX. H. STEVENS.  
 C. AMORY STEVENS.  
 ADOLPH D. STRAUS.  
 ANSON PHELPS STOKES.  
 Miss OLIVIA E. P. STOKES.  
 ISIDOR STRAUS.  
 THOMAS W. STRONG.\*  
 HENRY M. TABER.  
 JAMES TERRY.  
 SAMUEL THOMAS.  
 FRED. F. THOMPSON.  
 SAMUEL THORNE.  
 CHARLES E. TILFORD.  
 A. N. TOWNE.  
 EFFINGHAM TOWNSEND.  
 SPENCER TRASK.  
 EDWARD TUCK.  
 EDWARD UHL.  
 FREDERICK UHLMANN.  
 C. VANDERBILT.  
 GEO. W. VANDERBILT.  
 H. D. VAN NOSTRAND.\*  
 HERMAN C. VON POST.  
 Dr. HENRY F. WALKER.  
 W. SEWARD WEBB.  
 BENJAMIN WELLES.  
 FREDERICK B. WENDT.  
 LOOMIS L. WHITE.  
 ED. KIRK WILLARD.  
 S. C. WILLIAMS.\*  
 JOHN T. WILLETS.  
 ROBERT R. WILLETS.  
 BENJAMIN A. WILLIS.  
 EDWARD WINSLOW.  
 JOHN WOLFE.\*  
 HENRY H. WOTHERSPOON.  
 JOHN H. WYMAN.\*  
 MRS. JOHN J. WYSONG.

\* Deceased.

## ANNUAL MEMBERS.

*By the Payment of Ten Dollars Yearly.*

Abbott, Frank, M.D.	Barnes, John S.	Bogert, Stephen G.
Abegg, Henry	Barnes, Theo. M.	Bond, Frank S.
Abegg, J. H.	Barney, Chas. T.	Bonn, William B.
Abeel, George	Barney, N. C.	Bookstaver, H. W.
Acker, Franklin	Barry, D. E., M.D.	Booss, Frederick
Adee, Philip H.	Bawden, Wm.	Borg, Simon
Agnew, John T.	Beaman, Charles C.	Boskowitz, I.
Aitken, John W.	Beckel, Joseph	Bouton, J. W.
Aldrich, Mrs. H. D.	Bedle, Joseph D.	Bowers, John M.
Alexander, Henry M.	Beckman, Gerard	Bowdoin, G. S.
Alexander, Jas. W.	Beer, Julius	Bradley, S. R.
Alexander, John F.	Beers, M. H.	Bradley, William H.
Alexandre, J. H.	Beinecke, B.	Breslin, James H.
Allen, Calvin H.	Bell, Isaac	Briesen, Arthur V.
Amend, Bernard G.	Bend, George H.	Briesen, Frank von
Ammon, Adolph	Benedict, James H.	Briggs, Mrs. J. A.
Amsinck, Gustav	Benjamin, John	Bristol, John I. D.
Amy, H.	Bentley, Charles E.	Brockway, A. N., M.D.
Anderson, E. Ellery	Bentley, John	Brockway, Fred. J., M.D.
Andreini, J. M.	Berdell, Theodore	Brookfield, Wm.
Appleton, Daniel	Bernheim, Gustav	Brooks, Charles M.
Appleton, Wm. H.	Bernheimer, Mrs. A.	Brower, Wm. L.
Appleton, W. W.	Bernheimer, Charles D.	Brown, J. Crosby
Archbold, John D.	Bernheimer, Charles L.	Brown, Vernon H.
Archer, George A.	Bernheimer, Simon	Bruce, S. D.
Armour, H. O.	Berrian, Charles M.	Bryce, William
Arnold, E. S. F., M.D.	Berwind, Edward J.	Burden, Henry, 2d
Arnold, John H. V.	Betts, Samuel R.	Burden, James A.
Aufhauser, Samuel	Bianchi, F.	Burr, Wm. H.
	Bien, Julius	Butler, Charles
Babcock, Samuel D.	Biglow, Lucius Horatio	Butler, Prescott Hall
Baker, Frederic	Bissinger, Philip	Butler, Wm. Allen
Baldwin, C. C.	Blagden, George	Byrne, John
Baldwin, J. G., M.D.	Blanchard, G. R.	
Baldwin, O. D.	Blatchford, Samuel M.	Cabot, Dr. John
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Banta, C. V.	Blumenstiel, A.	Calman, Henry L.
Banyer, Goldsborough	Blumenthal, Aug.	Cammann, H. H.
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 Carter, Walter S.  
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 Daly, Chas. P.  
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 Davis, Benjamin P.  
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 Day, Henry M.  
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 de Forest, Robert W.  
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 deCoppet, Henry  
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 Roosevelt, W. Emlen  
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 Rowland, George  
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 Taylor, Stevenson  
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 Tefft, Wm. E.  
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 Tillinghast, W. H.  
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 Tonnelé, John L.  
 Toothe, William  
 Toplitz, L.  
 Toucey, J. M.  
 Townsend, R. H. L.  
 Townsend, R. W.  
 Tracy, J. Evarts  
 Trevor, H. G.

- |                         |                         |                        |
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| Troescher, A. F.        | Wallach, Antony         | Wickham, Delos O.      |
| Turnure, Lawrence       | Ward, Lebbeus B.        | Wiebusch, Chas. F.     |
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|                         | Warner, Lucien C.       | Wills, Charles T.      |
| Ullmann, E. S.          | Waterbury, John I.      | Wilmurt, Thos. A., Jr. |
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| Valentine, Mrs. Lawson  | Watson, Walter          | Wilson, John           |
| Valentine, Wm. A., M.D. | Weatherbee, Mrs. E. H.  | Wilson, Washington     |
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| Van Brunt, Hon. C. H.   | Weed, Benjamin          | Witherbee, Frank S.    |
| Van Ingen, Edward H.    | Weed, Geo. E.           | Wood, Mrs. Henry R.    |
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| Van Winkle, Edgar B.    | Wheelock, Geo. G., M.D. | Young, Edward L.       |
| Van Winkle, Miss E. S.  | Wheelock, Wm. A.        | Young, Reginald        |
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| Veit, Richard C.        | White, Horace           | Zabriskie, Andrew C.   |
| Voorhis, Wm. W. L.      | Whitehead, Charles E.   | Zickel, S.             |
|                         | Whitely, James          | Zinsser, Aug.          |
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| Walker, William I.      | Wicke, William          |                        |

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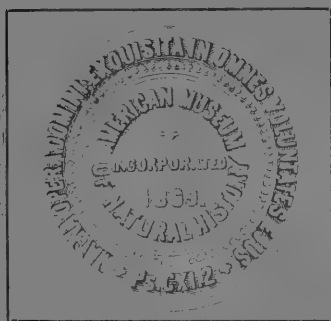




THE  
*American Museum of Natural History*

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park, West.)



ANNUAL REPORT OF THE PRESIDENT,  
TREASURER'S REPORT, LIST OF ACCESSIONS,  
CONSTITUTION,  
BY-LAWS AND LIST OF MEMBERS  
FOR THE YEAR 1897.

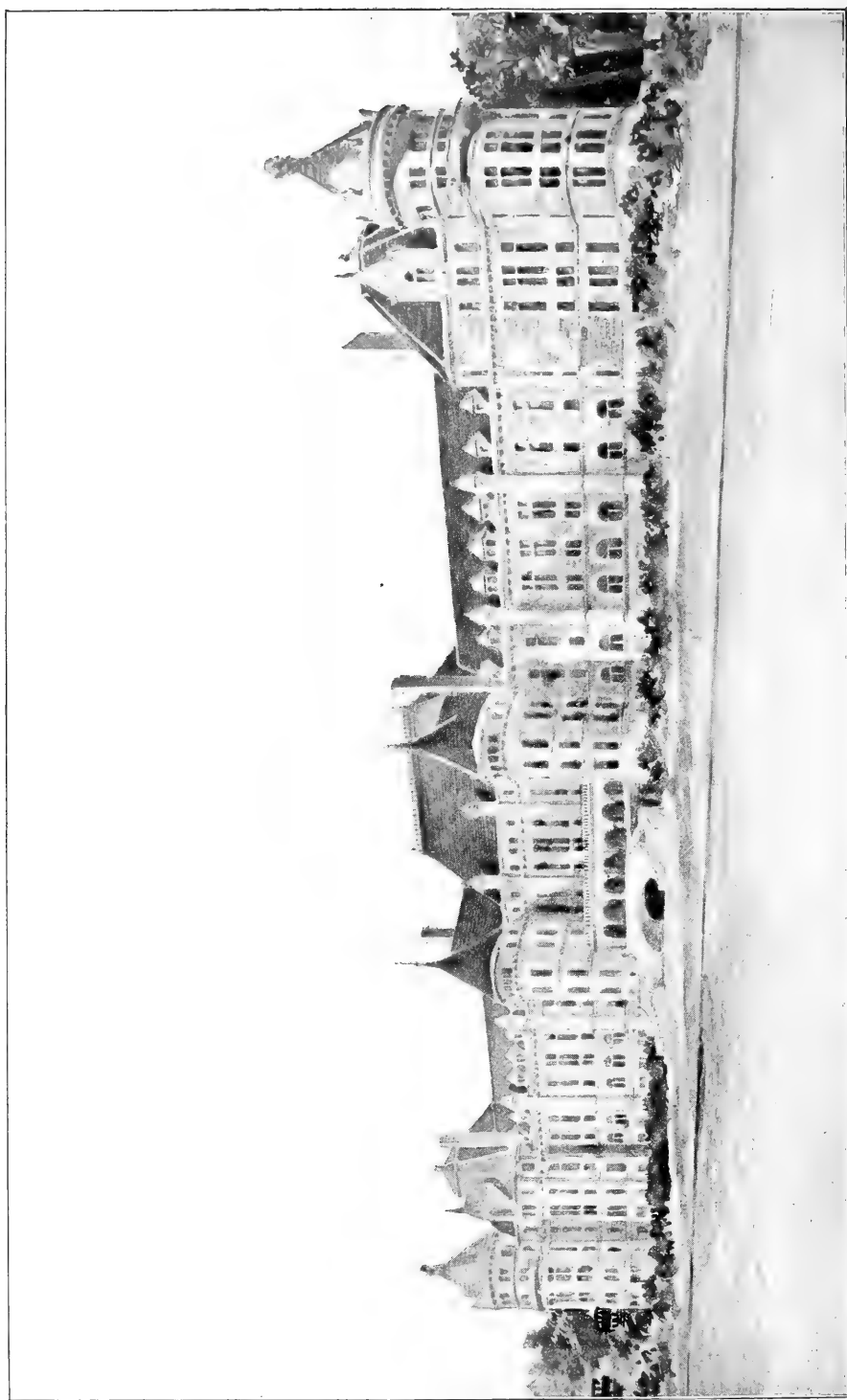
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THE  
AMERICAN MUSEUM OF NATURAL HISTORY.







PERSPECTIVE VIEW OF SOUTH FRONT OF MUSEUM, SEVENTY-SEVENTH STREET.



*The "Perspective View of South Front of Museum," forming the frontispiece of this Report, is from a drawing furnished by the architects, Cady, Berg and See.*



THE  
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CENTRAL PARK, NEW YORK CITY.

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ANNUAL REPORT OF THE PRESIDENT,  
TREASURER'S REPORT, LIST OF ACCESSIONS,  
CONSTITUTION,  
BY-LAWS AND LIST OF MEMBERS

FOR THE YEAR 1897.



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1898.

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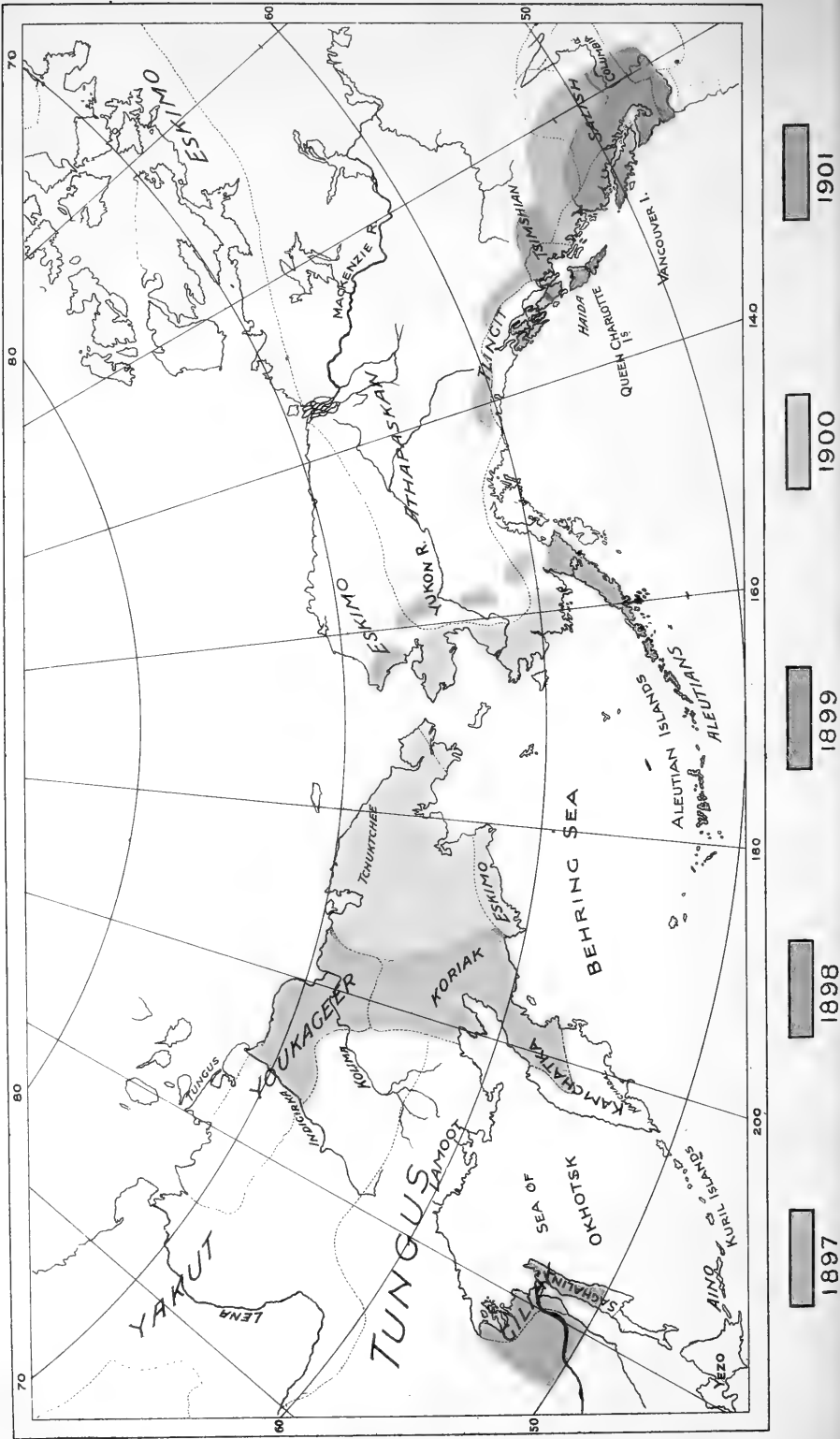
WILLIAM WALLACE.







# FIELD OF PROPOSED OPERATIONS OF THE JESUP NORTH PACIFIC EXPEDITION.



## TWENTY-NINTH ANNUAL REPORT.

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*To the Trustees of the American Museum of Natural History :*

I have the honor to present the following brief statement of the work of the Museum for the year ending Dec. 31, 1897:

FINANCES.—Your attention is called to the fact that the expenditures have been kept within the limits of the appropriations made at the annual meeting.

Endowment account has a credit balance of \$3,192.06, after meeting the deficit in the receipts for maintenance during the year. I am enabled to report this very gratifying result through the generous assistance accorded by the Trustees at the annual meeting, on which occasion \$25,750 was subscribed to liquidate the Dr. balance at the close of 1896, and the estimated deficiency in the income for 1897.

It will be seen that the amount received from the city is not sufficient to maintain the Museum.

The following summary of the Treasurer's report shows the total receipts and disbursements:

### MAINTENANCE.

Receipts from the City .....	\$94,998	18
“ “ other sources .....	12,040	26
Transfer from Endowment Account to balance deficit, Jan. 1, 1897.....	3,406	23
Transfer from Endowment Account to balance deficit, Dec. 31, 1897....	1,510 01	\$111,954 68
Dr. Balance, Jan. 1, 1897.....	\$3,406	23
Disbursements.....	108,548 45	\$111,954 68

## ENDOWMENT.

Receipts from all sources. . . . .		\$69,548 80
Balance Jan. 1, 1897. . . . .	\$7,258 10	
Transfer to Maintenance Account to balance deficit, Jan. 1, 1897. . . . .	3,406 23	
Disbursements for the increase and development of the collections. . . . .	54,182 40	
Transfer to Maintenance Account to balance deficit, Dec. 31, 1897. . . . .	<u>1,510 01</u>	
	\$66,356 74	
Cash surplus carried over to Jan. 1, 1897. . . . .	<u>3,192 06</u>	<u>\$69,548 80</u>

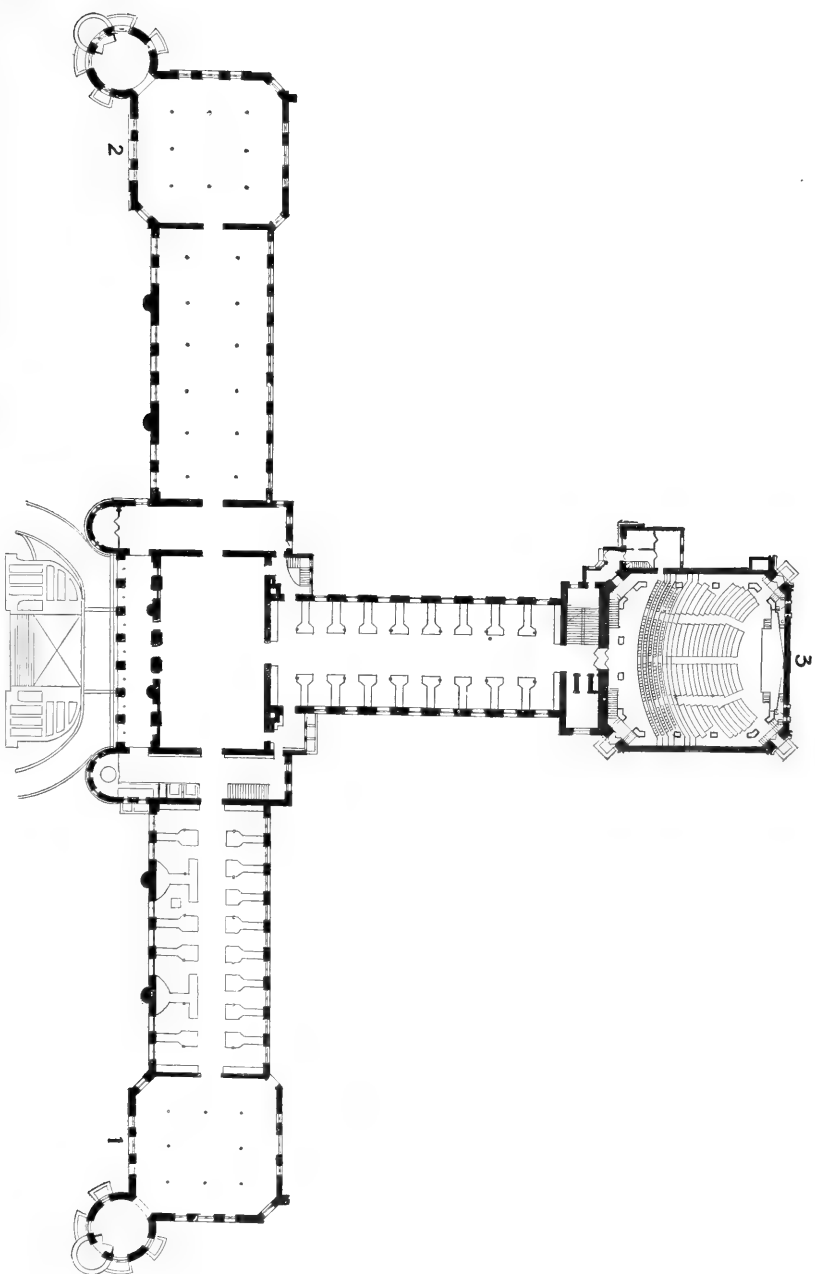
ADDITIONS TO THE BUILDING.—Early in April the State Legislature enacted a law empowering the municipal authorities to erect a new lecture hall and an addition to complete the corner of the west wing. Plans for these structures were promptly prepared, and received the approval of the Trustees, the Commissioners of Parks, and the Board of Estimate and Apportionment; the latter at the same time authorized the issue of the bonds as provided in the Act.

Within a brief time contracts were let for the structure to complete the east wing, for the erection of the addition to complete the west wing, and for the construction of the large lecture hall at the north end of the old building.

Rapid progress is making on all of these buildings, and unless some unforeseen delay prevents it is expected that the halls will be ready for cases and fittings during 1899. The new lecture hall may be ready for occupancy late in the coming autumn, and will have a seating capacity for fifteen hundred persons. This hall will provide ample accommodation for the large numbers which at times heretofore have been unable to gain admission to the courses of free lectures to the public.

Attention is called to the diagram inserted in this report which exhibits the two end structures and the new lecture hall at the north end.

With these additions the south front of the Museum will be completed in accordance with the original plans adopted at the time the first structure was erected.



GROUND PLAN. { 1.—East Wing, under construction  
 2.—West " "  
 3.—Lecture Hall, "



ACCESSIONS.—The list of accessions published in the later pages of this report is an evidence of the growing interest felt in this Museum by our citizens. The donations were numerous, and represent many valuable additions to the collections and Library.

I desire to record our appreciation of the gift made by Mr. Wm. F. Havemeyer of a painting and four studies of some of the important works of Wm. Bradford. These have been hung in the Library, with the large painting of the "English Expedition in Search of Sir John Franklin," given to the Museum in 1892 by Mr. Havemeyer and a number of his friends. The celebrated work owned by C. P. Huntington, and painted by the same artist, entitled "The Polaris in the Ice at Thank God Harbor," also hangs in the Library.

Mr. James A. Bailey has given an Indian Elephant, two Camels and two Kangaroos, to the Department of Vertebrate Zoölogy. Our thanks are also due to the Commissioners of Parks for a number of animals which died at the Menagerie and at the Aquarium.

Mr. James M. Constable and your President had the pleasure of securing for the same department three excellent specimens of Mountain Sheep, the types of a new species described in the present volume of the Bulletin.

Gifts of rare and very desirable collections of mammals, birds and reptiles were received from Dr. Edgar A. Mearns, U. S. Army; Mr. Morris M. Green, of Syracuse, N. Y., and Mr. W. R. Horn, of Melbourne, Australia. Miss Annie Peniston, of Hamilton Parish, Bermuda, has presented another collection of shells from Bermuda, an addition to her previous donation.

The Copper Queen Consolidated Mining Company has added to its previous gifts a number of valuable specimens, and Mr. I. F. Elder, of Keokuk, Iowa, presented forty-two geodes from Northwestern Missouri.

A collection of fossils and shells were donated by Mr. Wm. E. Crane, of Tarrytown, N. Y., many of the shells being previously unrepresented in the collection.

The Department of Anthropology has been greatly benefited through the liberality of the Duke of Loubat. The means to

continue archæological research in the Delaware Valley, near Trenton, N. J., were provided by him, and the results sent to the Museum. He has also presented the Department a number of casts made from large sculptures in the National Museum of Mexico, and a complete set of the casts from America, Asia and Polynesia, in the Ethnographical Museum of Berlin. To these he has added casts from the moulds, owned by Mr. A. Maudslay, of the large sculptured stone at the ancient ruins of Quirigua, Guatemala, known as the "Great Turtle of Quirigua," a cast of the largest of the stone idols at the same place, 27 feet in height, and of a large stone of similar character from the ruins of Copan, Honduras.

The Duke also provided the means for securing a number of casts of other large sculptures from Copan, from moulds belonging to the Peabody Museum, and we are also indebted to him for a large collection of objects obtained in Mexico and Guatemala by Dr. Edward Seler.

Mr. Francis C. Nicholas, General Manager of the South American Exploration Company, made an interesting collection of archæological material during his examination of the tract of land belonging to this Company in the eastern portion of the United States of Colombia. The gift contains a number of specimens of special interest from a region hardly known to the archæologist.

Late in the year, forty-eight new water colors, painted by Mrs. C. S. Sargent, were added to the Collection of North American Forestry by the President; others will be contributed until the collection is made complete. Sections of several new species of trees, discovered during the year, were also added, and new maps were prepared showing the geographical distribution of the trees.

We are greatly indebted to Mr. Wm. Schaus, of Twickenham, England, who has recently donated his collection of Old World Moths, in all eight thousand specimens. Mr. Schaus is engaged in identifying the species still in his possession, and upon the completion of this work will send them to the Museum.

The Trustees are also indebted to the Very Reverend Dr. Eugene A. Hoffman, Dean of the General Theological Seminary of this city. His interest in the Museum has induced him to



present us with a representative collection of the Butterflies of America, North of Mexico. He has also authorized the Curator to select for the Museum a representative collection of the Butterflies of Central and South America.

The Termite and Ant Hill Nests, collected in Hayti and the United States of Colombia, by Mr. Francis C. Nicholas, now shown in the Gallery Hall, were presented by Mr. Henry C. Pratt of this city.

Among the many accessions to the Library I make special mention of the gift of Miss Laura P. Halsted, a warm friend of the Institution, who presented three hundred and seven volumes as a memorial to her brother, the late Robert Halsted.

Another important donation has been received from the British Government, which, at the request of the Royal Society, has presented to the Library the "Report on the Scientific Results of the Voyage of H. M. S. 'Challenger,'" consisting of forty-four volumes.

The Library has also received, through the generosity of the Duke of Loubat, ninety-two volumes relating especially to Anthropology, an exceptionally helpful gift to this department, the works having been selected with reference to its needs. Many of the volumes are very rare.

One hundred specimens have been added to the mammal exhibit, among which are six Deer, a Puma, three Mountain Sheep, a Rhinoceros, a Nilghau, and four dogs representing prominent races.

Two new groups were added to the series of bird groups, prepared with their natural surroundings; one of these comprises adult and young specimens of the Duck Hawk. The other contains the old and young of the Red-shouldered Hawk. Both were mounted with their natural accessories in a realistic manner, under the supervision of Mr. John Rowley, and have been placed in the main hall, at the entrance.

Skeletons of the Walrus, White-tailed Gnu, Polar Bear, Narwhal, Rhinoceros and Boa Constrictor have been added to the exhibition collection.

About 250 geological and mineralogical specimens were purchased in various parts of Russia and Russian Armenia by

Dr. Edmund O. Hovey, Assistant Curator in the Geological Department, while in attendance at the Seventh Triennial Session of the International Geological Congress convened at St. Petersburg. Dr. Hovey also made a short stay at the Marine Zoölogical Laboratory, Bay of Naples, where he secured a very interesting series of specimens. His leave of absence covered a period of several months, a portion of the cost of the journey and his salary being defrayed by the Trustees.

EXPEDITIONS.—Field exploration is an influential factor in the growth of the Museum, and its importance increases with each succeeding year. The brief mention here following gives but an inadequate idea of the great increase in the collections due to this source.

After remaining nearly four years in Mexico, Dr. Carl Lumholtz returned in April last, and has since been engaged in preparing his notes, and the labels for the material gathered by him. This large and costly collection, secured among the tribes of Mexico, adds greatly to our knowledge of their history. From the Huichols a full series of objects was obtained relating to tribal ceremonies. The specimens have been catalogued, and will soon be arranged in the west wing.

Dr. Adolf F. Bandelier has continued his researches in Bolivia and Peru, mainly in the vicinity of Lake Titicaca. The collections received during the year were numerous and valuable, and contained a number of trephined skulls, to which attention was called many years ago by the late E. G. Squier. The Museum now owns a large number of these skulls, and very interesting results will accrue from their study, particularly since one gives evidence of the remarkable surgical operation of bone-grafting. The Peruvian collection has not yet been exhibited in its entirety, but will soon be placed in the west wing.

The services of Mr. Ernest Volk were continued for the entire year, exploring at several points near Trenton, N. J. As before mentioned, the Duke of Loubat defrayed the cost of this work, which has been carried on under the direction of Prof. F. W. Putnam for the purpose of careful investigation of the question

which has arisen relative to the antiquity of man in the Delaware Valley. In this connection it may be stated that a subscription has been made by Mr. B. Talbot B. Hyde to defray the cost of further continuing the work in 1898.

Acting under the concession granted to this Institution by the Mexican Government, Mr. Marshall H. Saville, Assistant Curator in charge of the division of Archæology, has been for several months in Mexico, engaged in the exploration of ancient ruins, from which he has gained information of great scientific importance, and has also sent valuable material for our exhibits. Mr. Saville will not return until May next.

Messrs. B. Talbot B. Hyde and Frederick E. Hyde, Jr., have at their personal cost continued the explorations in the ancient pueblos in New Mexico. The present year forms the third season of the work they have very generously prosecuted in the interest of the Museum. Fully as valuable results are expected from the continuation of the work next year, and it is a source of sincere pleasure to feel that the efforts of the Trustees meet with such earnest coöperation.

Another important expedition was undertaken in the interest of the Department of Vertebrate Zoölogy by Mr. A. J. Stone, a trained collector. His plans provide for a series of journeys, begun this year, and to be continued till the close of the autumn of 1900. His operations will cover the territory from Montana to Bering Strait. The Department will thus acquire a full representation of the game and other large animals to be found in the countries he will visit. This material will greatly enrich our display of North American Mammals, for which additions the Museum is indebted to Mr. James M. Constable.

It is of interest to note that an important plan has been arranged conjointly with the Carnegie Museum, whereby Mr. Herbert H. Smith, late a curator there, and a skilled collector, will make an extended trip to the United States of Colombia. He will gather specimens for both institutions, which will provide this Museum with a large series of species now unrepresented in our collections.

Mention was made in the report of the preceding year of the valuable results which would accrue to science from a systematic

investigation of the tribes inhabiting the coasts of the North Pacific Ocean, and the acquisition of information disclosing their historical development. In the same report a map was annexed showing the region which it was proposed to cover in the course of the research. The details of the plan were arranged in the beginning of this year in order to enter upon the work at the earliest practicable moment. Your President thereupon decided to assume the expense involved in prosecuting the research, and a revised map is incorporated in the present report showing the localities to be visited during the next four years.

The plans for the work for the second year have been decided, and reports will be made from time to time of the operations of the parties in the field. Occasional articles, which have appeared in the public press, have furnished a brief and popular narrative of the progress made by the explorers up to the close of the first season.

Thanks are due to the Imperial Russian Government for assurances of its coöperation in the work to be undertaken on the coast of Northeastern Siberia, and the State Department of our own country has also given valuable assistance and counsel, in relation to the movements of the explorers.

Our parties engaged in the field received important aid from some of the transcontinental lines, and it is very gratifying to record this manifestation of continued interest in the Museum's work. In this regard, the Board is indebted to Mr. C. P. Huntington, Mr. George J. Gould, Mr. Eben B. Thomas, Sir William C. Van Horne, Mr. Edward D. Adams, Mr. James J. Hill, and Mr. E. T. Jeffrey. The Wisconsin Central Railroad and branches have aided the Museum in the transmission of freight, and the New York & Cuban Mail S. S. Company, and the Panama R. R. Company, have granted special rates on shipments from Mexico and Peru.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.—Additional room and larger facilities were provided for the Study Collection, which was rearranged during the year. A beginning has been made toward gathering material to represent by means of casts, or mounted specimens, the fish and reptile fauna of the State.

Labels were supplied for all new specimens of Mammals, and many old labels have been replaced to conform to the recent changes in nomenclature; the Bird Collection has received similar attention. The gain of the year is summarized as follows: Mammals, 872; birds, 1356; reptiles, 146; fishes, 150.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE ZOÖLOGY.—The work of the department has mainly been devoted to the care of the Shell Collection; labels have been prepared for the general collection, which has required the revision and preparation of about 4500 labels. In bringing together the material, it is disclosed that the case room is insufficient for the proper installation of this branch of our collections, and it will require therefore the assignment of more space for the purpose.

Considerable attention has also been given to the specimens of Invertebrate Zoölogy in the way of mounting and preparing specimens brought in during the year. The corals and sponges have been displayed to better advantage.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—In referring to this department, a portion of the report of its Curator, Prof. Henry F. Osborn, is incorporated, for the purpose of more clearly expressing the gratifying results achieved through the efforts of the force engaged in field work. The field parties consisted of Dr. J. L. Wortman, Dr. W. D. Matthew and Mr. W. W. Granger of the Museum; and Messrs. Brown and Menke of Kansas University. The Curator also spent a short time in field work.

“In the Department of Vertebrate Palæontology we have continued to devote the greatest care and study toward arousing the interest of the public in our exhibits. Two large charts have been made, showing clearly the succession of animals in the ascending series of rocks on this continent.

“Three years ago we first took the camera into the field, and began to secure a series of photographs of the sites where the different types of extinct animals are found. We have now taken advantage of the negatives, and are having them enlarged and carefully colored as window transparencies, thus conveying to the visitors a clear idea of the Bad Lands. From over two hundred negatives, we propose to fill all the windows in the Hall with scenes taken at or near the specimens exhibited.

"Aided by the generous gift of Mr. J. Pierpont Morgan, Mr. Charles Knight has continued his series of water-color drawings representing North American life, which have aroused very great interest abroad as well as in this country. These water-colors have also been reproduced in large bromide photographs, and distributed as exchanges to other museums.

"Complete series now hang in the British Museum, London, and have been sent to museums at Oxford, and the Royal Museum at Brussels. Altogether, 19 water colors have been completed.

"We have also begun to make a series of models of extinct animals, also the work of Mr. Knight, which are cast for our own Hall, as well as for the purposes of exchange.

"Attention is especially directed to the rapid progress in the mechanical methods (under the direction of Mr. Adam Hermann). Beginning with the low relief style shown in the photographs of the Three-toed Rhinoceros, which was mounted in 1893, we have finally attained the beautiful method shown in the Horned Rhinoceros, the most perfect example of its kind; the entire skeleton being supported by steel rods which pass through the centre of the bones, only the two main supports being visible.

"The mount of *Phenacodus* is also a model, as every bone can be removed for purposes of study, this being one of the rarest and most unique fossil skeletons in the world.

"In 1896 we reached a stage of development of our fossil Mammal Collection, which rendered it expedient to enter a new field.

"The total number of specimens collected and catalogued in the five years ending 1896 was 7,661, including nearly 40 complete skeletons. This, added to the 3,600 specimens in the Cope Collection, gave us a total of 10,961. This total has been reduced for the fine exchange collections sent to Munich and Paris, for which we have received 300 specimens from Munich and a beautiful series of casts from Paris, to be followed by collections of original skeleton material.

"In 1897 the Department had extraordinary success in the field as a result of four expeditions, filling 80 boxes, requiring nearly two freight cars for their transportation.

"Starting to open a quarry in Wyoming for the oldest type of mammals, the party made an unexpected discovery, first of one, then of two reptile skeletons of magnificent size, and in a remarkable state of preservation.

"Thus has been inaugurated the second great division of the work, namely, the history of the Reptiles in North America. Besides the Dinosaurs found in Wyoming, a good beginning was made in eastern Kansas in the search for flying reptiles and marine swimming reptiles, and for the Mammalian Collection was







secured a complete skeleton of the Three-toed Horse, adding another important step to the history of this family, and to its contemporaries, the Llamas, Sloths, etc."

The Department of Public Instruction has made a complete set of the negatives of the paintings of restorations in this department, referred to in the abstract of the Curator's report; the photographic slides of these paintings will be distributed throughout the State for the benefit of the Normal Schools.

DEPARTMENT OF ANTHROPOLOGY.—This important department has made marked progress during the year, and the results serve to show the great possibilities future years hold for the development of its plans and collections, and the valuable aid which they may become in the advancement of science and public education.

The field to be covered in the illustration of the various phases of the life history of our race is too vast in extent to be dwelt upon at this time.

The large space assigned in the west wing for the collections of this department will add sufficient space for its immediate requirements, but the continuance of the various expeditions in the field will provide so much valuable and important material that the erection of additional structures cannot be deferred beyond the next few years.

Several of the collections received into the department during the year have a special value, inasmuch as they were obtained by collectors having the most important requirements of the Museum in view. Thorough work of this character has been done by Dr. Franz Boas, Messrs. M. H. Saville and Harlan I. Smith, assistants.

DEPARTMENT OF ENTOMOLOGY.—Accessions to this department have greatly increased during the past few years. The preparation of labels has been carried on steadily, and the new material numbered for identification as it arrived. This is a slow and tedious process, and while the work is advanced as rapidly as possible, it is estimated that fully one hundred thousand specimens still remain uncatalogued.

The formation of a local collection of insects, or of those found within a radius of fifty miles from this city, was commenced a few years since and is now nearly complete ; for the pupils of public and private schools, the collection will possess special interest and be a means of education in natural history study. Many of these species could be utilized in the preparation of insect groups, combined with natural accessories, after the manner used in the construction of groups of mammals and birds.

THE LIBRARY.—Late in the year the removal of the books to the new quarters provided in the west wing was completed, the stacks and shelves of which, constructed of iron, are planned in conformity with the most approved designs.

The windows afford ample light except on dark days, and for such occasions the alcoves have been furnished with stationary and portable electric lights. Stacks were built in double stories and are supplied with japanned racks, numbered.

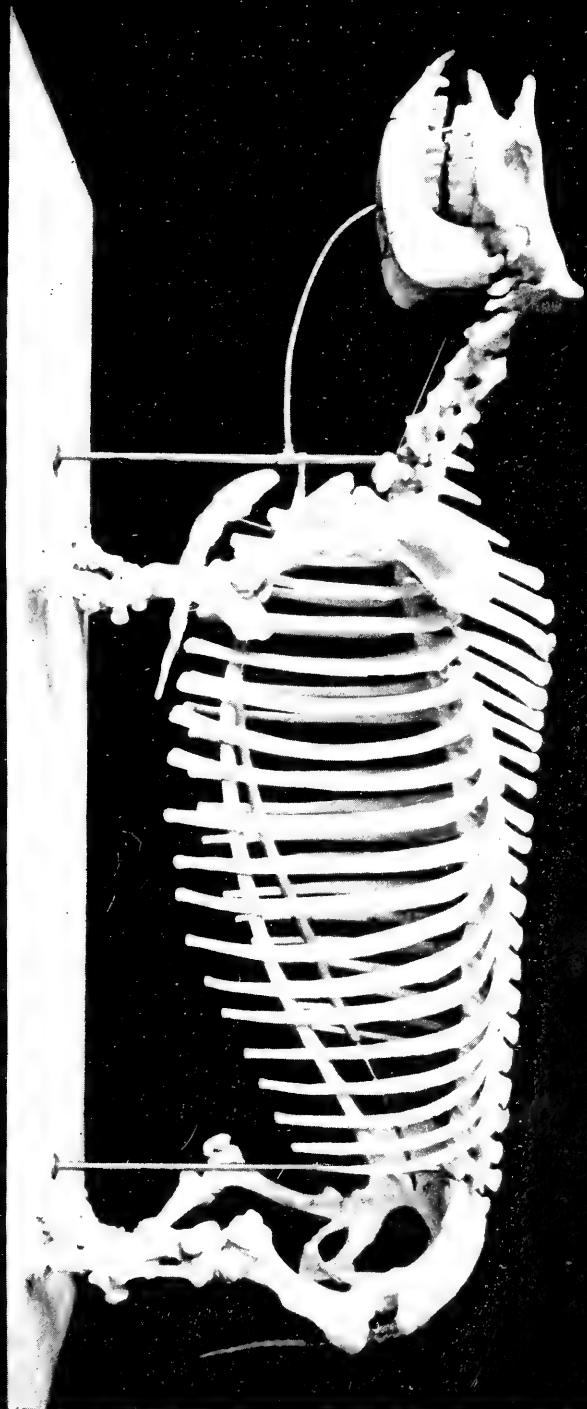
The books are classified in sections with reference to the various branches of natural history, also geographically. Scientific periodicals, domestic and foreign, are placed in the gallery racks. Room has been provided for the placement of fifty thousand volumes.

The accessions received this year exceed those of any preceding year in the history of the Museum. The librarian reports a gain of 3,350 volumes, 3,874 numbers and parts, and 367 pamphlets, making the total number of volumes at the close of the year, 35,852.

Although the Library now takes high rank among those pertaining to natural history, it is nevertheless deficient in several branches, and a special appropriation of five thousand dollars annually could be advantageously expended in adding publications desired by the several departments.

DEPARTMENT OF PUBLIC INSTRUCTION.—The growth of this department has continued, and its usefulness has widened.

Prof. Albert S. Bickmore, Curator of the department, planned to provide means for the teachers in the kindergarten and primary departments of our public schools, to teach their pupils by the





visual method, and delivered an illustrated lecture to a class of the youngest pupils in this city, and in Albany, in order to test the efficiency of the method of instructing those who enter the lowest grades of the public schools. Experimental trials were very encouraging, and their continuance through the teachers of the lower grade classes was approved by the State Superintendent of Public Instruction.

A series of seventy-five drawings of some of the birds of our country have just been completed, and slides colored from the specimens in our halls. These slides were exhibited by the Curator at the annual meeting of the American Ornithologists' Union, and at the meeting of the Audubon Society of the State of New York, held at the Museum during the autumn and winter. On one screen appeared the slide showing the specimen, and beside it were exhibited views of Central Park and other parts of our State in summer and in winter, so that the bird, its habitat, and the season of its presence, were shown at the same time. The courses of lectures delivered by the Curator during 1897 to the teachers of the public schools were in accordance with the series of subjects approved by the Honorable Charles R. Skinner, State Superintendent of Public Instruction.

The free lectures given to our citizens under the joint auspices of the Board of Education and this Institution have been maintained with undiminished success under the direction of Dr. Henry M. Leipziger, Supervisor of Lectures. That their popularity has largely increased is evinced by the numbers unable to gain admission to the hall on Tuesday evenings. The lectures given under the auspices of the Linnæan Society; the New York Botanical Garden; the Audubon Society; the New York Entomological Society, and the receptions of the New York Academy of Sciences and the New York Microscopical Society have necessitated the opening of the Museum one extra evening each week. The Trustees have devoted Tuesday evenings for the Board of Education Series, and Saturday evenings for the lectures given by the Professors of Columbia University; these courses extend from October to May inclusive. Tickets to these lectures are always sent to members of the Museum.



- NEW YORK BOTANICAL GARDEN LECTURES, 1897.

Henry M. Rusby, M.D.

Jan. 14.—Four Months in the Sierra Madre of Mexico.. Prof. William Libby.  
Feb. 13.—A Little Journey in Yucatan . . . . .Mr. Frank M. Chapman.  
Mar. 11.—Life in the Nacimiento Desert of New Mexico..Dr. J. L. Wortman.

## BOARD OF EDUCATION LECTURES, 1897.

- NEW YORK ENTOMOLOGICAL SOCIETY LECTURES, 1897.

- Apr. 10.—Protective Coloring and Mimicry of Animals, with Special  
Reference to Insects. . . . . Prof. Lyman A. Best.  
“ 24.—The Study of Insects : Their Structure and Formation.  
Dr. E. G. Love.

RECEPTIONS.—April 13th, New York Microscopical Society; April 5th and 6th, New York Academy of Sciences. Nov. 9th, 10th, 11th, The Fifteenth Annual Congress of the Ornithologists' Union.

PUBLICATIONS.—Volume IX of the Bulletin was issued during the year, forming a volume of about 400 pages, with 38 plates and nearly 150 text figures. The 24 articles arranged by departments, are as follows :

#### DEPARTMENT OF INVERTEBRATE PALÆONTOLOGY.

Note on the Hypostome of *Lichas* (*Terataspis*) *grandis* Hall. By R. P. Whitfield (pp. 45, 46, with 3 text figures).

Descriptions of New Species of Silurian Fossils from near Fort Cassin and elsewhere on Lake Champlain. By R. P. Whitfield (pll. IV and V, pp. 177-184).

Descriptions of Rudistæ from the Cretaceous Rocks of Jamaica, W. I., collected and presented by Mr. F. C. Nicholas. By R. P. Whitfield (pll. VI-XXII, pp. 185-196).

Observations on the Genus *Barrettia* Woodward, with Descriptions of two New Species. By R. P. Whitfield (pll. XXVII-XXXVIII, pp. 233-246, with two full page text cuts).

#### DEPARTMENT OF VERTEBRATE ZOÖLOGY.

On Mammals from Yucatan, with Descriptions of New Species. By J. A. Allen and Frank M. Chapman (pp. 1-13).

On a Second Collection of Mammals from the Island of Trinidad, with Descriptions of New Species, and a note on some Mammals from the Island of Dominica, W. I. By J. A. Allen and Frank M. Chapman (pp. 13-30).

Additional Notes on Costa Rican Mammals, with Descriptions of New Species. By J. A. Allen (pl. I, pp. 31-44).

Further Notes on Mammals collected in Mexico by Dr. Audley C. Buller. By J. A. Allen (pp. 47-58).

Preliminary Description of a New Mountain Sheep from the British Northwest Territory. By J. A. Allen (pll. II and III, pp. 111-114).

On a small Collection of Mammals from Peru, with Descriptions of New Species. By J. A. Allen (pp. 115-120).

Descriptions of a New Species of *Sigmodon*, from Bogota, Colombia. By J. A. Allen (pp. 121, 122).

On a Collection of Mammals from Jalapa and Las Vigas, State of Vera Cruz, Mexico. By J. A. Allen and Frank M. Chapman (pp. 197-208).

Hybrids between the Game Cock and the Guinea Fowl. By Juan Vilaró, M.D. (pll. XXV and XXVI, pp. 225-230).

Description of a New Vespertilionine Bat from Yucatan. By J. A. Allen (pp. 231-232).

Notes upon New York Fishes received at the New York Aquarium, 1895-1897. By Tarleton H. Bean (pp. 327-375).







DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

The Ganodonts and their Relationship to the Edentata. By J. L. Wortman, M.D. (pp. 59-110, with 36 text figures).

The Huerfano Lake Basin, Southern Colorado, and its Wind River and Bridger Fauna. By Henry Fairfield Osborn (pp. 247-258).

A Revision of the Puerco Fauna. By W. D. Matthew (pp. 259-324, with 20 text figures.)

DEPARTMENT OF ANTHROPOLOGY.

The Decorative Art of the Indians of the North Pacific Coast. By Franz Boas (pp. 123-176, with 81 text figures).

An Ancient Figure of Terra Cotta from the Valley of Mexico. By H. M. Saville (pl. XXIII and XXIV, pp. 221-224, and 1 text figure).

DEPARTMENT OF ENTOMOLOGY.

Notes on Some Species of North American Moths. By William Beutenmüller (pp. 209-212).

Notes on North American Sesiidæ, with Descriptions of New Species (pp. 213-216).

Food Habits of North American Sesiidæ. By William Beutenmüller (pp. 217-220).

Three New Species of *Heterocerca* from Sierra Leon, Africa. By W. Schaus (pp. 325-327).

Part III of Volume I of the *Memoirs* is in press, and will be shortly issued, consisting of 9 plates and about 70 pages, by Professor Osborn, forming Part I of his monograph, 'The Extinct Rhinoceroses.'

Eighteen plates have been printed for a memoir by Mr. M. H. Saville on the 'Codex Legislatif,' and several plates have been prepared for a forthcoming monograph of the Clear-winged Moths (Sesiidæ), by Mr. Wm. Beutenmüller.

A number of papers planned for publication in 1897 have been necessarily deferred for various reasons, but mainly for lack of money. Hence there remains in the hands of the Publication Committee five papers ready for immediate publication in the *Bulletin*. It is desirable, therefore, that the appropriation for this branch of the Museum's work shall be largely increased for the coming year.

EXCHANGES OF DUPLICATE MATERIAL.—Exchanges of material have been made and are in process between this Institution and several of the museums at home and abroad, which will add many new and desirable objects to the Department of Anthropology, Vertebrate Zoölogy, and Vertebrate Palæontology.

MEMBERSHIP.—Miss Laura P. Halsted and the Very Reverend Eugene A. Hoffman, D.D., were each elected a "Fellow," and Messrs. James C. Baldwin, John J. Corning, George Iles, Morris M. Green and Mrs. Sally Morris Cory were made "Life Members."

The following members have died during the year: Howard Potter and Charles W. Cass, "Fellows," and Henry M. Taber, E. Oelbermann, George Kemp, Charles H. Contoit, Charles Moran, Charles Addison Miller, James Fraser and Mrs. James C. Ayer, "Life Members."

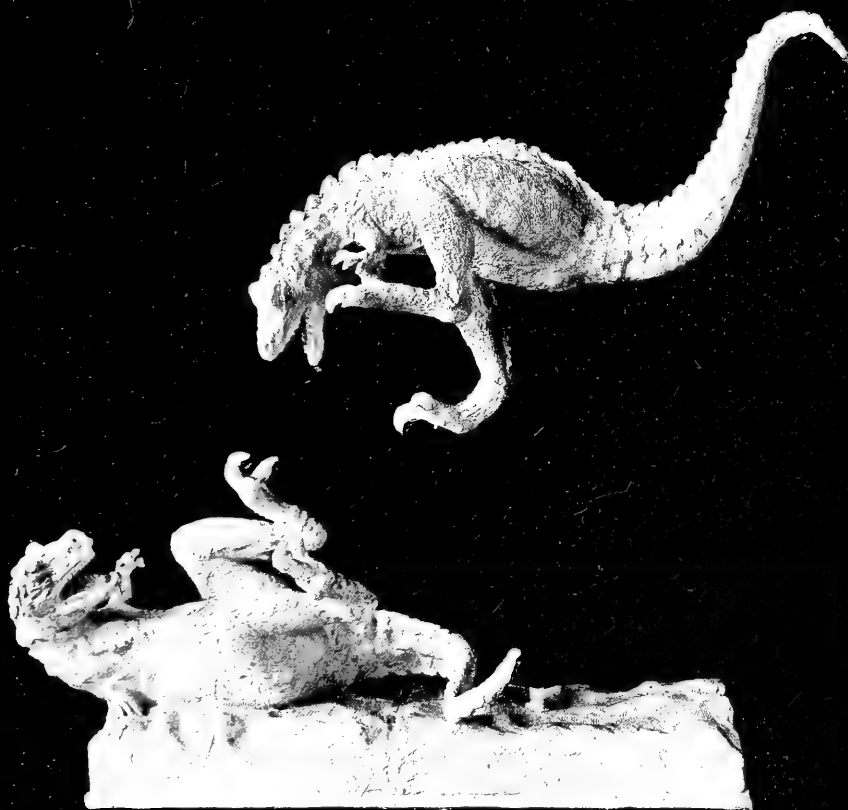
It is a sad duty to record the decease of our late friend and associate Trustee, Mr. Theodore A. Havemeyer, which occurred April 26, after a brief illness. Mr. Havemeyer always showed great interest and zeal in promoting the growth of the Museum, and the loss of his services and counsel will be deeply felt.

Each year discloses an increase in the applications for permits to make drawings and studies of the specimens. Requests are also frequently made to permit photographs to be taken of objects to be used in the illustration of articles for the daily press and magazines.

It is the aim and desire of the Trustees to encourage the scientist, the student and the public to avail themselves of the collections and the library for the study of natural history. To this end the Library is always open to visitors desiring to consult its volumes, and the curators extend a welcome to persons in search of technical information regarding the determination of specimens. The growth of public interest in this direction becomes more marked year by year; teachers bring entire classes of pupils to extend their study by the examination of the objects.

The growth of the collections has surpassed the progress made during 1896, and the year to come promises a still greater advance.

The yearly income from the invested funds of the Museum amounts to less than nineteen thousand dollars per annum, a sum far too small to rely upon for the increase of the collections. This income is supplemented by the receipts from members, and friends who subscribe for special work in the field and for



No. 3. *Megalosaurus* (*Laelaps*, *Dryptosaurus*)  
*aquilunguis* (*Cope*).



the purchase of collections. The Trustees are also called upon for subscriptions to meet the annually recurring deficit in the receipts. The essential requirement is a largely increased endowment fund. Noting the ever-increasing interest in the Institution, I have strong hopes that the not distant future holds a promise of success in this direction. It is not a question of the merits of the Museum, its value as a factor in the instruction and recreation of the public and the advancement of popular education being cheerfully conceded by all classes of our citizens. Our hearty thanks are due to the annual subscribers and our friends who have been added to the roll of Patrons, Fellows and Life Members, through gifts of money or collections. I trust that the progress of the Museum will always enlist their interest and aid.

I embrace this occasion to record my testimony of the good will, uniform kindness and hearty coöperation which the Institution has received at the hands of the municipal authorities.

In closing this brief report it is a pleasure to acknowledge the zeal and earnest attention manifested by the members of the scientific and administrative staff of the Museum.

MORRIS K. JESUP,

*President.*

*MAINTENANCE.*

RECEIPTS.

Jan. 1, 1897. Transferred from Endowment Account to balance deficit in Maintenance Account.....	\$ 3,406 23
Department of Public Parks.....	94,998 18
Special Loan.....	12,000 00
Consolidated Gas Co. (refund).....	40 26
Transferred from Endowment Account to balance deficit in Maintenance Account, Dec. 31, 1897.....	1,510 01

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\$111,954 68

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Examined { ANSON W. HARD, } *Auditing*  
 and approved, { GEORGE G. HAVEN, } *Committee.*

Correct.—JOS. W. EDWARDS, *Auditor*, Feb. 11, 1898.



*MAINTENANCE.*

DISBURSEMENTS.

Jan. 1, 1897. Debit balance from 1896 .....	\$ 3,406 23
Expressage .....	593 04
Salaries .....	42,043 40
Labor .....	32,389 07
Printing .....	24 35
General Expenses.....	2,638 73
Postage.....	325 57
Repairs.....	2,098 29
Coal.....	4,296 93
Supplies.....	3,493 70
Labels.....	1,196 94
Stationery.....	730 10
Fixtures.....	4,367 77
Interest on "Dr." balances.....	244 89
Poison .....	989 84
Traveling Expenses.....	25 50
Annual Report.....	903 23
Special Loan and Interest.....	12,187 10

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\$111,954 68

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CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, Dec. 31, 1897.

ENDOWMENT.

RECEIPTS.

To Interest on Invested Funds .....	\$18,600 00	
Trustees' Subscriptions :		
Wm. C. Whitney.....	\$2,000 00	
Elbridge T. Gerry.....	2,000 00	
Jos. H. Choate .....	1,000 00	
D. Willis James.....	2,000 00	
James M. Constable....	2,000 00	
Theodore A. Havemeyer.....	2,000 00	
Anson W. Hard.....	500 00	
Archibald Rogers .....	500 00	
William E. Dodge.....	2,000 00	
Oswald Ottendorfer.....	1,000 00	
Morris K. Jesup.....	2,000 00	
J. Pierpont Morgan.....	2,000 00	
Charles Lanier.....	1,000 00	
C. Vanderbilt.....	2,000 00	
Adrian Iselin .....	1,000 00	
William Rockefeller .....	1,000 00	
D. O. Mills.....	1,000 00	
Abram S. Hewitt .....	500 00	
Cash.....	250 00	25,750 00
Annual Members.....		6,680 00
Life Members :		
James C. Baldwin.....	\$100 00	
John J. Corning .....	100 00	
George Hles.....	100 00	300 00
M. K. Jesup—Mountain Sheep Group .....		200 00
J. M. Constable—" " " " .....		200 00
Admission Fees.....		1,116 75
Henry F. Osborn .....		2,000 00
Vertebrate Palæontology—Sale of Casts.....		48 25
State Superintendent of Public Instruction.....		12,000 00
B. T. B. & F. E. Hyde, Jr .....		800 00
Very Rev. E. A. Hoffman, D.D.....		508 30
Joseph F. Loubat.....		1,250 00
Guides .....		61 50
Collecting Permits.....		34 00
		69,548 80
		<u>\$69,548 80</u>

Examined { ANSON W. HARD, } *Auditing*  
and approved, { GEORGE G. HAVEN, } *Committee.*

Correct.—JOS. W. EDWARDS, *Auditor, Feb. 11, 1898.*

*ENDOWMENT.*

DISBURSEMENTS.

By Balance from 1896 .....	\$7,258	10	
Minerals .....	251	15	
Ornithology.....	81	52	
Bulletin.....	2,725	31	
Emmons' Second Alaskan Collection.....	5,668	10	
Mammals .....	566	13	
Kunz Jade Collection.....	600	00	
Anthropology.....	3,338	26	
Library.....	1,044	78	
Mammal Groups .....	406	10	
Appleton Sturgis—Pacific Islands Collection.....	3,854	38	
Skeletons.....	318	08	
General Expenses .....	607	37	
Lumholtz Expedition, Mexico .....	1,882	28	
Bird Groups.....	33	00	
Geology .....	568	71	
Postage.....	45	36	
Traveling Expenses.....	485	50	
Conchology.....	34	12	
Peruvian Expedition... ..	4,223	53	
Stationery .....	128	75	
Edwards' Entomological Collection.....	600	00	
Entomology.....	648	57	
Spang Collection, Minerals .....	150	00	
Haines Collection, Shells .....	1,000	00	
Edward D. Cope Collection.....	8,086	81	
Vertebrate Palæontology.....	3,906	31	
Department of Public Instruction .....	9,580	40	
Economic Collection.....	97	50	
Invertebrate Zoölogy.....	105	90	
Ethnic Groups.....	158	23	
Niven Mexican Collection .....	500	00	
Mexican Expedition .....	2,474	50	
Printing.....	11	75	
Transferred to Maintenance Account to balance deficit Jan. 1, 1897.....	3,406	23	
Transferred to Maintenance Account to balance deficit Dec. 31, 1897.....	1,510	01	
Surplus Cash on hand.....	3,192	06	\$69,548 80
			<u>\$69,548 80</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, Dec. 31, 1897

## CHAPTER 213.

AN ACT to provide for enlarging the building situated in Central Park, in the City of New York, and occupied by the American Museum of Natural History, for the purpose of furnishing proper facilities for increased exhibition and public instruction.

Accepted by the city.

Became a law April 7, 1897, with the approval of the Governor. Passed, three-fifths being present.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. The department of public parks in the city of New York, with the concurrence of the board of estimate and apportionment, is hereby authorized to erect and equip additions to the building situated in that part of Central Park formerly known as Manhattan square, and which is now in the possession and occupation of the American Museum of Natural History, under and in accordance with the contract made in pursuance of chapter one hundred and thirty-nine of the laws of eighteen hundred and seventy-six, chapter two hundred and seventy of the laws of eighteen hundred and ninety-two, chapter thirty-one of the laws of eighteen hundred and ninety-three, and chapter one hundred and seventy-five of the laws of eighteen hundred and ninety-six. Such additions shall be so constructed as to provide for the suitable display of the specimens of the museum, and may also include a lecture hall. The trustees of said museum shall select the architects to prepare, under their direction, the plans, and to superintend, under the direction of the department of public parks, the construction of said additions. Said plans, when completed, shall be submitted by said trustees to the said department for its approval, and may include any additions to or alterations of the present building made necessary by the aforesaid enlargements, and such additions, alterations, improvements and repairs to it as the said department and the trustees of said museum may agree are proper and necessary. The said department shall provide for the compensation of the architects out of the fund hereby provided for the erection of said additions. Said equipment shall include all the cases and fittings and other apparatus required for the preparation, exhibition and preservation of the specimens, books and other property of the museum.

§ 2. For the purpose of providing means for carrying into effect the provisions of this act, it shall be the duty of the comptroller, upon being thereunto authorized by the board of estimate and apportionment, to issue and sell, but at not less than their par value, bonds or stocks of the mayor, aldermen and commonalty of the city of New York, in the manner now provided by law, payable from taxation, but not exceeding in the aggregate the sum of five hundred thousand dollars, bearing interest at a rate not exceeding four per centum per annum, and redeemable within a period of time not exceeding thirty years from the date of their issue.

§ 3. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed.

§ 4. This act shall take effect immediately.





# LIST OF ACCESSIONS, 1897.

## DONATIONS.

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Natural History of the Insects mentioned in Shakespeare's Plays. By Robert Patterson. 1842.  
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Bibliographia Zoologiæ et Geologiæ. 4 Vols. 1848-1854.  
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- O. BANGS (the author), Boston, Mass.  
Some New Mammals from Indian Territory and Missouri. 1896.  
The Skunks of the Genus *Mephitis* of Eastern N. A. 1896.  
A Review of the Squirrels of Eastern N. A. 1896.  
A New White-footed Mouse from British Columbia. 1897.  
On a Small Collection of Mammals from Hamilton Inlet, Labrador. 1897.  
Preliminary Description of the Newfoundland Marten. 1897.  
Preliminary Description of a New Race of the Eastern Vole from Nova Scotia. 1897.  
Preliminary Description of a New Vole from Labrador. 1896.
- PROF. A. S. BICKMORE, New York City.  
Third Annual Report of New York Department of Agriculture. 3 Vols. 1896.
- DR. J. C. BRANNER (the author), Stanford University, Cal.  
The Phosphate Deposits of Arkansas. 1896.  
The Red River and Clinton Monoclines, Arkansas. 1897.  
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Discussion and Remarks on Shamanism. 1897.  
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- MRS. R. P. DANA, New York City.  
Two large Folios, Illustrated Scrap Books.

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 Hardwood. Vol. X, No. 119; XI, XII, Nos. 133, 134. 1897.  
 Chicago Hardwood Record. Vol. IV, Nos. 12, 13; V, Nos. 1-4. 1897.  
 The Timber Pines of Southern U. S. By Chas. Mohr, Ph.D. 1896.  
 Division of Forestry U. S. Circular No. 17. 1897.
- DANIEL DRAPER, Ph.D., Director New York Meteorological Observatory.  
 Self-Recording Readings. Jan.-Oct. 1897.
- S. F. EMMONS (the author), Washington, D. C.  
 Presidential Address, etc. 1896.
- DUKE OF LOUBAT, New York City.  
 Historia Antigua y de la Conquista. By D. A. Chavero. Tome I.  
 Manuscrit Troano. Etudes sur le système Graphique et langue de  
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 Palenqué et autres ruines de l'ancienne civilization du Mexique. By  
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 Codex Peresianus. Manuscrit Hiératique des anciens Indiens de  
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 Essai sur le Déchiffrement de L'Ecriture Hiératique de L'Amerique  
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 The Sculptures of Santa Lucia Coxumalwhuapa in Guatamala. By S.  
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 Códice Maya denominado Cortesiano, etc. By D. Je López, etc.  
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 Annuaire du Comité D'Archéologie Américaine. 1863-'65, 1866-'67.  
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 History of the Expedition under Captains Lewis and Clark to sources  
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 Peking, Yeddo, San Francisco. By Le Comte De Beauvoir. 6th Edit.  
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 Fragments d'une Histoire des Études Chinoises au XVIII Siècle. By Henri Cordier. 1895.  
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 Documents pour servir a L'Histoire du Mexique et Atlas. By Eugène Boban. 2 Vols. 1891.  
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 Club Life. 1897.  
 Thirty-third Annual Statement of National Bank of Commerce in N. Y. 1897.  
 Mower Genealogy. 1690-1897.
- LIEUT. G. T. EMMONS, Princeton, N. J.  
 The Origin and Meaning of the Totem Poles in S. E. Alaska. By F. E. Frobes. 1897.
- HON. R. P. FLOWER, New York City.  
 War of the Rebellion. Series I, Vols. XLIX, Parts I, II; L, Parts I, II; LI, Part I; Series II, Vol. I. 1897.
- LEWIS W. GUNCKEL (the author), Dayton, Ohio.  
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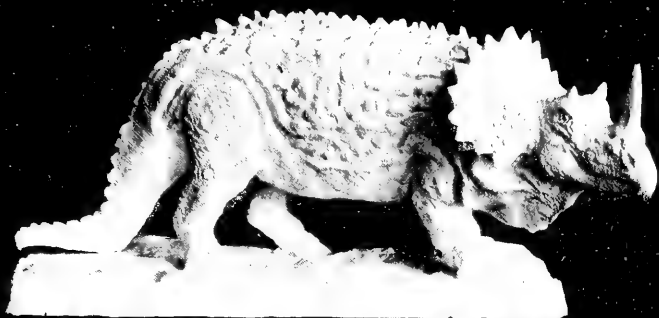
- WM. F. HAVEMEYER, and a number of other Gentlemen, New York City.  
Oil Painting of English Arctic Expedition in search of Sir John Franklin. Nipped in the Ice with the English and American Whalers. Painted by William Bradford.
- Miss LAURA P. HALSTED, in Memory of Robert Halsted.  
The White Mountains, 3rd Edit., Revised and Enlarged. 1880.  
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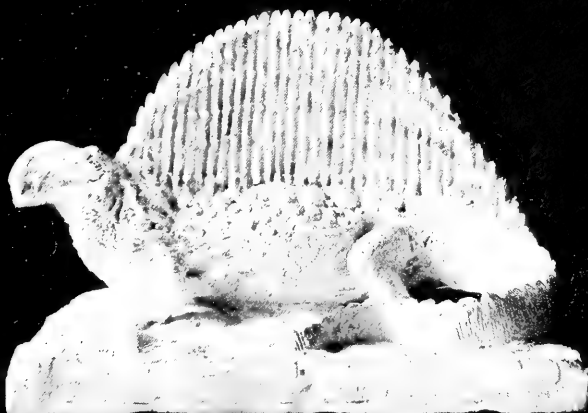
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DEPARTMENT OF GEOLOGY, MINERALOGY, CON-  
CHOLOGY AND MARINE INVERTE-  
BRATE ZOÖLOGY.

GEOLOGY.

PROF. C. E. BEECHER, New Haven, Conn.

2 Models of *Triarthrus Becki*.

W. E. CRANE, Tarrytown, N. Y.

155 Species of fossils, nearly all European, many new to the collection.

WALTER HIRSCH, New York.

1 Specimen of *Orthonota undulata*, very fine.

- J. P. KIMBALL, Century Co., New York.  
 2 Valves of *Schizothaerus Nuttalli*, Con., from Puget Sound.  
 4 " " *Saxidomus aratus*, Gould.  
 3 " " *Tapes*, sp. ?.
- J. C. MCCOY, 201 West 78th St., N. Y.  
 About 100 specimens of Lower Green Marl fossils of the Cretaceous, from Delaware.
- CHARLES E. MONROE, Milwaukee, Wis.  
 About 25 specimens of fossils of the Hamilton Shale, from the tunnel under the lake at Milwaukee, Wis.
- REV. S. PARSONS, Paterson, N. J.  
 2 Specimens of hypostoma of a Trilobite, *Pterataspis grandis*, from Schoharie grit, loose at Paterson, N. J., figured in Bulletin.  
 Also fragments of Pygidium of *Pterataspis grandis*, from Schoharie grit boulder at Paterson, N. J.  
 1 Specimen of *Orthoceras stylus* and one specimen of *Philipsastrea Vernuili*, E. & H., Schoharie grit, found loose at Paterson, N. J.  
 2 Blocks of *Orthis testudinaria*, found loose at Paterson, N. J.
- CAPT. A. W. VODGES.  
 8 Fossils from Trenton Limestone near Toronto, Canada.

## MINERALOGY.

- COPPER QUEEN CONSOLIDATED MINING CO., Bisbee, Ariz.  
 Several Stalactites of various forms, and one specimen of polished Stalagmite.
- PROF. JAMES DOUGLASS.  
 5 enlarged views of the Copper Queen Mine at Bisbee, Ariz., showing Stalactites, &c., on roof of cave.
- J. F. ELDER.  
 42 Geodes from Northwest Missouri.
- J. H. HUNTLEY, Visalia, Cal.  
 A triangular piece of Chrysoprase from near Visalia, Cal.
- FRANK KESSLER.  
 4 Fragments of California Onyx with polished surfaces.
- R. D. LACOE, Pittston, Pa.  
 A nearly entire Aërolite from fall of 12th of Feb., 1875, near Homestead, Iowa Co., Iowa.
- F. C. NICHOLAS.  
 5 Specimens of Senarmontite, and the same enclosing unaltered Stibnite, from Mexico.  
 A few specimens of Pyrite from a clay bed.
- PROF. H. W. PARKER, New York.  
 1 Disc of Marcasite from the coal shale at Sparta, Ill.
- RARE MINERAL MINING CO., 26 Cortlandt St., N. Y.  
 3 Specimens of Wolframite, from the Trumbull Mines, Fairfield Co., Conn.
- ERNEST SCHERNIKOW, New York.  
 1 Large specimen of Pink Beryl, from Haddam Neck, Conn.  
 1 " " " Microcline Feldspar, from Haddam Neck, Conn.
- JOHN H. WINSER.  
 3 Discs of Marcasite, from the coal shale at Sparta, Ill.

ERNEST WRIGHT.

- 10 Specimens of Quartz Crystals associated with and in Calcite, from near Saratoga, N. Y.

J. P. MORGAN, New York City.

- 1 large specimen of Wulfenite, from Las Cruces, New Mexico.  
2 Calcite crystals, from the Pittsburg Mine, near Joplin. Mo.  
A group of Calcite with Galena, from the Blakie Mine, No. 2, near Joplin, Mo.

CONCHOLOGY.

W. E. CRANE, Tarrytown, N. Y.

- 30 or more species of shells, from various localities.

LIEUT. G. T. EMMONS, U. S. Navy.

- A collection of marine and land shells.

MISS ANNA PENISTON, Bermuda.

- 87 Species, or 641 individual shells, from Bermuda.

J. D. SEON, Seward, Bermuda.

- 1 Specimen of *Cypræa exanthema*, found in Castle Harbor, Bermuda.

INVERTEBRATE ZOÖLOGY.

MRS. W. BLAKE, 265 West 39th St., N. Y.

- 2 Specimens of Coral, 1 *Madrepora cervicornis*, and 1 *Madrepora palmata*, from West Indies.

ALFRED CABASSUD, 31 Broadway, N. Y.

- 1 Large Lobster, from the waters off Atlantic Highlands, N. J.

DR. ARNOLD GRAF, Pathological Institute, N. Y.

- 1 Specimen of Jelly Fish, *Cyanea arctica*.  
1 Jar of *Pennaria tiarella*, Polyp.  
1 " " *Bugula turrita*, Byozoan.  
1 Specimen of *Amaroucium pellucidum*, Ascidian.  
1 " " *Botryllus Gouldi*, Ascidian.  
1 " " *Lepas anatifera*, Crustacean.  
1 " " *fascicularis*, all from Wood's Holl, Mass.

T. HOWELL.

- 1 Specimen of Coral, Madrepore, from St. Thomas, W. I.

F. C. NICHOLAS.

- Several specimens of Coral from Jamaica, W. I.  
3 Specimens of Echinoderms.

J. P. RYAN.

- 7 Specimens of Jelly Fish, *Idyia roseola*, Ag., from Canarsie Bay.

MARSHALL H. SAVILLE.

- Crustaceans, Echinoderms, Corals and Shells, from U. S. Colombia.  
F. C. Nicholas Collection.

R. P. WHITFIELD.

- 1 Siliceous monactinoid sponge, from Lower California, and about 200 specimens of Sponges, Gorgonias, Corals, Shells, Echinoderms, Crustaceans, &c., all from Bermuda.

## DEPARTMENT OF VERTEBRATE ZOÖLOGY.

## MAMMALS.

- EDWARD B. ADAMS, Philadelphia, Pa.  
2 California Moles, mounted.
- HENRY ALCLIN, Forrest Valley, Ulster Co., N. Y.  
1 *Zapus insignis*.
- SPENCER ALDRICH, New York City.  
1 Young Otter, mounted.
- JEROME ALEXANDER, New York City.  
1 Mexican Hairless Dog.
- H. P. ATTWATER, San Antonio, Texas.  
1 Pouched Mouse, with one pouch undeveloped; 4 Harvest Mice.
- J. A. BAILEY.  
2 Camels, 2 Kangaroos, 1 Indian Elephant, 1 Guanaco.
- JOHN BROOKS, Jalapa, Mexico.  
1 *Rhipidomys sumichrasti*.
- C. L. BROWNELL, Nyack, N. Y.  
34 Specimens from Florida.
- HON. ALFRED R. CONKLING, New York City.  
1 English Bloodhound.
- FRANK M. CHAPMAN, Englewood, N. J.  
1 *Zapus hudsonius*.
- C. L. CUNNINGHAM, Fort Klamath, Oregon.  
4 Specimens from Oregon.
- MRS. C. W. DEAN, New York City.  
1 Marmoset.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
19 Monkeys, 1 Puma, 1 Leopard, 2 Ocelots, 2 Foxes, 1 Bear, 2 Raccoons, 1 Harbor Seal, 1 West Indian Seal, 1 Coati, 3 Kinkajous, 5 Nylghaus, 5 Antelopes, 5 Deer, 1 Camel, 1 Woodchuck, 1 Agouti, 1 Kangaroo, 2 Opossums, 2 White Whales. Total, 59 specimens, received in the flesh from the Central Park Menagerie and New York Aquarium.
- MRS. SARAH J. EGBERT, New York City.  
2 *Dasyurus ursinus*, mounted.
- MICHAEL ENGLERT, New York City.  
Lower jaw of Porpoise, 1 Oryx horn, 9 sets of Deer antlers, 2 mounted heads of Deer.
- JOHN FANNIN, Victoria, B. C.  
2 Beavers, from British Columbia.
- MRS. MARY C. FRANKLIN, New York City.  
1 Spaniel.
- DR. GEORGE F. GAUMER, Izamal, Yucatan.  
6 Small Mammals from Yucatan.
- W. W. GRANGER, New York City.  
65 Small Mammals from Wyoming.
- JOSEPH GRINNELL, Pasadena, Cal.  
1 Pocket Gopher, from California, in unusual (melanistic) pelage.
- JOSEPH H. HENDERSON, New York City.  
1 Large Maltese Cat.

- DR. SAMUEL JENNESS, New York City.  
1 Double-headed Kitten, mounted.
- MORRIS K. JESUP, New York City.  
4 Eskimo Dogs, from the Peary Expedition.
- MORRIS K. JESUP and JAMES M. CONSTABLE, New York City.  
3 Mountain Sheep, including type of *Ovis stonoi*, sp. nov.
- W. E. T. KEYSER, New York City.  
1 Monkey.
- ROBERT HOE LAWRENCE, New York City.  
1 Skull of *Spilogale*, from Washington.
- EDGAR LEHMAN, New York City.  
1 Panda (*Elurus fulgens*), mounted.
- DR. EDGAR A. MEARNS, U. S. A.  
71 Small Mammals from Fort Clark, Texas.
- JOHN MOORE, New York City.  
1 Muskrat.
- FRANCIS C. NICHOLAS, New York City.  
16 Bats, in alcohol, from Sta. Marta, Colombia.
- CHEVALIER PETICH, New York City.  
2 Chihuahua Dogs.
- HENRY C. PRATT, New York City.  
17 Small Mammals, from Sta. Marta, Colombia.
- A. C. REMPEN, Para, Brazil.  
4 Skulls of Jaguar, from Lower Amazon, Brazil.
- WILLIAM M. RICHARDSON, New York City.  
1 Rat.
- JOHN ROWLEY, JR., New York City.  
1 Skull of Dog.
- DR. LEWIS NATHANIEL SHIELDS, New York City.  
1 Skull of Mountain Sheep, from Idaho.
- R. SHIELDS-ASLACHSEN, London, England.  
1 Spider Monkey.
- HARLAN I. SMITH, New York City.  
1 Coyote skull, 2 Dog skulls, from British Columbia.
- JOHN H. STARIN, New York City.  
2 Sea Lions.
- A. J. STONE, Missoula, Mont.  
2 Skulls and 1 head skin of *Ovis stonoi*.
- DR. WILLIAM THURMAN, New York City.  
1 Skull of Dolphin.
- MATEO TRUJILLO, Jalapa, Mexico.  
7 Specimens, from Jalapa, Mexico.
- EDWARD H. WALES, Hyde Park, N. Y.  
1 Albino Deer, from the Adirondacks.
- WILLIAM WALLACE, New York City.  
1 Collie Dog, 1 Eskimo Dog.

## BIRDS.

- DR. J. C. BARRON, New York City.  
1 Great Blue Heron.
- PROF. A. S. BICKMORE, New York City.  
1 Parrot, mounted, from the Spice Islands.
- MRS. C. C. BURLINGAME, New York City.  
38 Birds' skins, from Oregon and Washington.
- FRANK M. CHAPMAN, Englewood, N. J.  
1 *Myadestes obscurus*, 3 House Sparrows.
- S. H. CHUBB, New York City.  
2 Nests, with eggs, of *Stelgidopteryx serripennis*, from Palenville, N. Y.
- MRS. W. P. COLGATE, New York City.  
1 Crow, mounted.
- JOHN C. CORCORAN, Woods, N. Y.  
2 Great Blue Herons.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
1 Thrush, 1 Oriole, 1 Sparrow, 1 Woodpecker, 2 Toucans, 3 Eagles, 2 Hawks, 3 Owls, 5 Parrots, 4 Doves, 4 Pheasants, 1 Rail, 1 Bittern, 2 Swans, 1 Gannet, 1 Ostrich. Total, 33 specimens, received in the flesh, from the Central Park Menagerie.
- MICHAEL ENGLERT, New York City.  
13 Mounted birds.
- JACOB FREEDMAN, New York City.  
1 Three-legged Chicken, living.
- C. H. GRANGER, Rutland, Vt.  
2 Hawks.
- W. W. GRANGER, New York City.  
1 Murre, from Vermont; 1 Hawk, from Wyoming.
- MORRIS M. GREEN, Syracuse, N. Y.  
348 Bird skins, 148 species, and a large collection of birds' eggs.
- D. C. HASKINS, New York City.  
1 Hen's egg, showing breakage and repair while in the oviduct.
- MISS D. K. HALLOCK, New York City.  
19 Mounted birds.
- W. A. HORN, Melbourne, Australia.  
14 Bird skins, from the desert interior of Australia.
- A. C. HUMBERT, New York City.  
1 Ptarmigan, from Newfoundland.
- D. P. INGRAHAM, Beulah, Colo.  
1 Solitaire, 2 Flycatchers, from Colorado.
- S. JACKSON, New York City.  
1 Parrot.
- MRS. JENNIE C. KEATOR, Bensonhurst, N. Y.  
1 Great Blue Heron, mounted, from Port Eads, La.
- R. H. LAWRENCE, New York City.  
15 bird skins, from Oregon and Washington.
- DR. EDGAR A. MEARNES, U. S. A.  
80 Bird skins from Pennsylvania and Virginia, and 307 from Fort Clark, Texas.



- J. B. POTTER, Nyack, N. Y.  
9 House Sparrows.
- JOSEPH PRINCE, New York City.  
1 Starling.
- CLARENCE B. RIKER, Maplewood, N. J.  
2 Bobolinks.
- J. ROWLEY, JR., New York City.  
1 Hawk.
- A. SEALE, Stanford University, Cal.  
3 Heermann's Gulls, 1 Loon.
- MATEO TRUJILLO, Jalapa, Mexico.  
5 Bird skins, from Jalapa, Mexico.
- CHARLES F. WINGATE, New York City.  
1 White Java Sparrow.
- REV. CHARLES J. YOUNG, Lansdowne, Can.  
1 Egg of the Philadelphia Vireo.

REPTILES.

- CHARLES B. CORY, Boston, Mass.  
1 Young Crocodile and 1 young Alligator, mounted, from Florida.
- R. L. DITMARS, New York City.  
11 Snakes from the vicinity of New York City, and 1 Snake from Florida.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
3 Tortoise-shell Turtles, received in the flesh, from the New York Aquarium.
- J. F. DYE, New York City.  
3 South American Snakes, in alcohol.
- MICHAEL ENGLERT, New York City.  
1 Skull of large Sea Turtle.
- W. A. HORN, Melbourne, Australia.  
Rare Lizards from the interior of Australia, collected on the Horn Expedition.
- DON KELLY, New York City.  
1 Horned Toad.
- J. H. LIPSCHITZ, New York City.  
1 Jar of South American Snakes.
- W. L. SHERWOOD, New York City.  
35 Bottles of Batrachians, from the vicinity of New York City.
- STATEN ISLAND NATURAL HISTORY SOCIETY, Staten Island, N. Y.  
5 Jars of Reptiles, from the Lesser Antilles.
- G. M. THOMAS, New York City.  
1 Gila Monster, mounted, from Phoenix, Arizona.

## FISHES.

## DEPARTMENT OF PUBLIC PARKS, New York City.

About 100 specimens of rare Fishes, mostly from New York State.  
Received from the New York Aquarium, through the Director Dr.  
Tarleton H. Bean.

## WILLIAM DUTCHER, New York City.

1 Muscalonge, from Thousand Islands.

## MICHAEL ENGLERT, New York City.

1 Large Saw Fish Saw.

## DR. ARNOLD GRAFF, New York City.

1 Pipe-fish.

## W. A. HORN, Melbourne, Australia.

Rare Fishes, from the interior of Australia, collected on the Horn  
Expedition.

## DEPARTMENT OF ENTOMOLOGY.

## THE VERY REV. E. A. HOFFMAN, New York City.

Collection of 475 species, 1,650 specimens, of Butterflies, found in  
America, north of Mexico.

## WILLIAM SCHAUS, Twickenham, England.

8,000 Specimens of Moths, from Europe, Africa, Asia and Australia.

## HENRY C. PRATT, New York City.

1 Large Termite or White Ant Hill, from Colombia, collected by  
Mr. F. C. Nicholas.

1 Large Tree Termite Nest from Hayti, W. I., collected by Mr. F.  
C. Nicholas.

Several small domes built by Termites, from United States Colombia,  
collected by Mr F. C. Nicholas.

## F. C. NICHOLAS, New York City.

6 Nests of Trap-door Spiders, from Jamaica, W. I.

## DR. WILLIAM BARNES, Decatur, Illinois.

150 Specimens of North American Butterflies and Moths.

## ERNEST SHOEMAKER, Brooklyn, N. Y.

7 Specimens of Moths from Long Island.

## JACOB DOLL, Brooklyn, N. Y.

6 *Schinia brevis*, from Long Island.

1 *Papilio gundlachiana*, from Cuba.

1 *Catopsilia avellaneda*, from Cuba.

## JOSEPH KESSLER, Nyack, N. Y.

1 Hornets' Nest (*Vespa maculata*).

## DR. RICHARD KUNZE, Phoenix, Arizona.

12 specimens of Moths from Arizona.

## R. FELIX BIRCH, New York City.

1 Centipede, from South America.

## WILLIAM T. DAVIS, Staten Island.

1 *Pamphila fusca*.

## JAMES R. KERLEY, Upper Red Hook, N. Y.

1 Hornets' Nest (*Vespa maculata*).

## EDWARD KOHLER, Alpine, N. J.

1 Hornets' Nest (*Vespa maculata*).

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

PROF. J. F. KEMP, Columbia University.

Fragment of the jaw of a fossil mammal from Western Montana.

J. PIERPONT MORGAN.

Complete skull and jaw of *Castoroides Ohioensis* from Pleistocene deposits of Michigan.

BRITISH NORTH AMERICAN TRADING AND EXPLORATION COMPANY.

Molar tooth of a mammoth from the Klondike gold diggings.

DR. A. H. PHELPS, Glens Falls, N. Y.

Molar tooth of a fossil horse, from Rutland, Vt.

DEPARTMENT OF ANTHROPOLOGY.

MORRIS K. JESUP, New York City.

Collections obtained by The Jesup North Pacific Expedition; Archaeological collections from Kamloops, Lytton, Spences Bridge, Hammond, and Victoria, British Columbia; Ethnological collections from the Thompson River Indians, from the Chilcotin, Bella Coola, Haida, Kwakiutl, and Nootka; Human skeletons and crania from various parts of British Columbia; Casts and photographs for the exhibit illustrating the physical types of the Indians of British Columbia.

THE DUKE OF LOUBAT New York City.

An extensive archaeological collection from Southern Mexico and from Guatemala; Nineteen casts from large Mexican sculptures from the originals in the National Museum of Mexico; Cast of the sculpture known as "The Turtle" in the ruins of Quirigua, Guatemala; from moulds made under the direction of Mr. Alfred Maudslay.

Archæological specimens and photographs, the collection made by Ernest Volk during his explorations of the glacial deposits at Trenton, and of a prehistoric burial place near Trenton, N. J., during the year, under the direction of the Department.

B. TALBOT B. HYDE and F. E. HYDE, JR., New York City.

Archæological collection obtained from the exploration under the direction of the Department, of an ancient pueblo in New Mexico.

MRS. SALLY MORRIS CORY, New York City.

Collection illustrating several features of the life and customs of the Chinese, collected by Mrs. Cory.

GEORGE CASTOR MARTIN, New York City.

An Indian basket from Alaska.

DR. KINGSLEY, Schoharie, N. Y.

Eight Stone implements from Schoharie.

HENRY THURUM, New York City.

Arrow point from Brooklyn.

C. POMA.

Arrows of the Mundurucu Indians of Brazil.

ALBERT KEEN, Huntington, Calvert Co., Md.

Sixty stone implements collected by Capt. Keen in Calvert Co., Md.

- J. C. MARTIN, New York City.  
Negro charm from Jamaica.
- ANONYMOUS DONOR.  
Eight ethnological objects from the Sioux Indians.
- JAMES DOUGLAS.  
A Navajo loom ; a grave tablet from Ancon, Peru.
- WILSON MACY.  
Ethnological objects and photographs from Chili.
- M. H. SAVILLE, New York City.  
Hammer-stone, from New Mexico.
- A. J. MARTIN, New York City.  
Archæological collection from the vicinity of Santa Marta, Colombia,  
collected by F. C. Nicholas of the South American Exploration Co.
- EDWARD B. MACY, New York City.  
Two stone implements from Denmark.
- WILLIAM E. DODGE, New York City.  
Ancient stone urn from the Hebrides.
- MRS. J. CROSBY BROWN, New York City.  
A shield from New Britain ; two ear-rings of wire from West Africa.
- ANTONIO REMPEN.  
Nine ethnological objects from Brazil.
- HENRY DE MORGAN, New York City.  
Six human crania, human fibula, copper bracelet, and nine pottery  
vessels, from ancient graves in Russian Armenia.
- JAMES M. CONSTABLE, New York City.  
Nine ethnological objects from various countries ; five human skulls  
and portions of three skeletons from the New Hebrides.
- CLARENCE B. MOORE, Philadelphia, Pa.  
A large pottery urn containing cremated human remains, and a pottery  
vessel forming a cover to the urn. Found by Mr. Moore in a  
mound in Georgia and described in his memoir.
- J. S. and S. S. EDSALL, Palisade Park, N. J.  
Five skulls of negroes.
- J. F. HADLEY, New York City.  
Two blankets made of bark-cloth, a pottery vessel and four potsherds  
from Ecuador.
- JACQUES REICH, New York City.  
Several stone implements from New Dorp, Staten Island.

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## DEPARTMENT OF GEOLOGY, Etc.

### MINERALOGY.

I	Specimen of Göthite and Calcite,	from Pribram, Bohemia.
I	" " Heteromorphite, Sphalerite, &c.,	" " "
I	" " Bournonite,	" " "
I	" " Calcite on Dolomite,	" " "
I	" " " and Pyrite,	" " "
I	" " Pyrite and Sphalerite,	" " "
I	" " Tetrahedrite, Siderite, &c.,	" " "

I	Specimen of Breunerite, Sphalerite, &c.,	from Schneeberg, Tyrol.
I	“ “ “ “ on Sphalerite,	“ “ “ “
I	“ “ Calamine and Hydrozincite,	“ Raibl, Carinthia.
I	“ “ Sphalerite, Galenite, &c.,	“ “ “ “
I	“ “ Pyrite,	“ “ “ “
I	“ “ Marl, from Klosternenburg, Lower Austria.	
I	“ “ Malachite and Azurite, from Briselegg, Tyrol.	
I	“ “ Barite, from Briselegg, Tyrol.	

## CONCHOLOGY.

I	Specimen of <i>Unio amygdalum</i> , Lea, from Florida.
I	“ “ “ <i>cistæ-formis</i> , Lea, from North Carolina.
I	“ “ “ <i>Cunninghami</i> , Wright, from Florida.
I	“ “ “ <i>denigratus</i> , Lea, from Florida.
I	“ “ “ <i>Rutersvillensis</i> , Lea, from Texas.
I	“ “ “ <i>similis</i> , Lea, from Georgia.
I	“ “ “ <i>speciosus</i> , Lea, from Texas.

## DEPARTMENT OF VERTEBRATE ZOÖLOGY.

## MAMMALS.

207 specimens, chiefly from New York, Wisconsin and Florida.

## BIRDS.

65 specimens from the Philippine Islands; 100 specimens from coast of California.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

FROM THE PALÆONTOLOGICAL MUSEUM OF MUNICH, through Prof. Carl von Zittel.

Representing the Upper Eocene, Oligocene, Miocene, Pliocene and Pleistocene animals of Europe, principally horses, anoplotheres, palæotheres, antelopes, carnivores and rodents. Altogether 357 specimens, representing 87 different species, of fossil Mammals, and 4 specimens, representing 4 species, of fossil Birds.

## MUSEUM OF PRINCETON UNIVERSITY.

Casts of brains of four fossil mammals and of the forefoot of one.

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## DEPARTMENT OF GEOLOGY, ETC.

6 specimens of Cretaceous fossils, from Marathon, Brewster Co., Texas.  
53 different lots of Upper Miocene fossils, from the deep wells at Galveston, Texas.

## THROUGH MUSEUM EXPEDITIONS.

A number of fossils from a carbonaceous clay at Tuxpan, Mexico, collected by Dr. Lumholtz.  
7 species of Jurassic fossils from rock of this age at Freezeout, Albany Co., Central Wyoming, collected by Dr. Wortman.

## DEPARTMENT OF ANTHROPOLOGY.

Three specimens from West Africa (from Péné Collection), Figurine made of silver, gold and copper, from Bolivia (from Muñoz Collection). Iroquois war club (from Muñoz Collection).  
Five human crania from Solomon Islands (collected by P. E. Wolff).  
Nineteen native carvings from Alaska (Emmons Collection).

## THROUGH MUSEUM EXPEDITIONS.

## IN PERU AND BOLIVIA, by A. D. Bandelier.

Numerous archæological specimens obtained during the explorations of ancient ruins and burial places in the vicinity of Lake Titicaca, and on the islands in the lake. Also many drawings and photographs made in connection with the explorations. These collections contain many pottery vessels, stone implements, ornaments and implements of copper and other metals, and a large lot of human crania, including many that had been trephined and having other peculiarities.

## IN MEXICO, by Carl Lumholtz.

Ethnological collections from the Cora, Huichol and Tarasco Indians; Human skeletons and crania from various places in Mexico, and numerous other objects secured during his expedition.

## IN BRITISH COLUMBIA, by James Teit.

Ethnological collection from the Thompson River Indians.

## IN NEW YORK, by Caspar Mayer.

Life masks and photographs of Iroquois Indians at Lawton.

The collections obtained in British Columbia by the Jesup North Pacific Expedition; in New Mexico and Colorado by the Hyde Expedition; and in New Jersey by the Loubat Explorations, while carried on under the direction of the Department, were paid for in full by the parties named and are recorded under donations.

## DEPARTMENT OF VERTEBRATE ZOÖLOGY.

## MAMMALS.

106 specimens, chiefly from New York State.

THROUGH MUSEUM EXPEDITIONS.

219 specimens, mostly from Mexico and California.

BIRDS.

289 specimens, from the State of Vera Cruz, Mexico.

THROUGH MUSEUM EXPEDITIONS.

15 specimens, mostly from New York State.

DEPARTMENT OF ENTOMOLOGY.

Transformations of African Termite or White Ant (*Termes bellicosus*).

Transformation of Large Yellow Hornet (*Vespa crabro*).

75 North American Butterflies.

30 specimens of insects from Brazil.

Large Ant Hill, from New Jersey.

DEPARTMENT OF GEOLOGY, ETC.

MINERALOGY.

A doubly terminated crystal of Quartz showing several bubbles, from Mazela, Guerrero, Mexico.

A quantity of cave specimens, including one large group of peculiar Calcites and several capped groups, from pools in the Copper Queen Consolidated Mines at Bisbee, Arizona.

1 specimen of Vanadinite, from Hillsboro, New Mexico.

1 " " Pollucite, from near Paris, Maine.

1 " " Hamlinite, " " " "

1 " " Montmorillonite, from near Paris, Maine.

1 " " Tridymite, from San Pietra, Italy.

CONCHOLOGY.

1 specimen of *Pleurotomaria Beyrichi*, from Japan.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

Series of twenty-three casts of brains of modern Mammals, from Ward's Nat. Sci. Establishment.

Complete skeleton of a large Swimming Lizard (*Liodon*), twenty-eight feet long, from the Cretaceous Beds of Western Kansas.

FROM FIELD EXPEDITIONS INTO

(1) JURASSIC BEDS OF WYOMING.

A large part of the skeletons of two gigantic Dinosaurs, estimated at 50-60 feet in length, and fifteen boxes of rock containing small mammal jaws and bones.

(2) PLEISTOCENE BEDS OF NEBRASKA.

Skull and skeleton bones of a large Ground Sloth (*Mylodon*), great numbers of bones from all parts of the skeleton of the extinct Horse (*Equus excelsus*), many bones of extinct Camels, tusks and teeth of the Mammoth, and some bones of rarer animals.

(3) EOCENE OF HUERFANO BASIN, Colorado.

Twenty specimens of Eocene Mammals, including parts of the skeleton of *Tillotherium*, skull and jaws of a new species of *Oxyaena* and lower jaw of *Patriofelis*.

(4) CRETACEOUS BEDS OF KANSAS.

Ninety specimens of Reptiles and Fishes, including more or less complete skeletons of *Pteranodon*, *Chidastes* and *Protostega*, skulls of *Platecarpus*, *Pteranodon* and several kinds of fish.



CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,

IN THE CITY OF NEW YORK.

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ARTICLE I.

This Corporation shall be styled the AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II.

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, shall be the Trustees to manage the affairs, property, and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever

requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

#### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, and a Treasurer, all to be elected from the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other Committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

#### ARTICLE V.

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The office of Secretary and of Assistant Treasurer may be held by the same person.

## ARTICLE VI.

The Executive Committee shall consist of nine, of whom the President, First and Second Vice-Presidents, and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four, and five years, respectively, and the terms for which those drawing the two, three, four, and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property of the Museum; and shall have power to purchase, sell, and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two

thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also have the books of the Museum duly audited at least once in six months by an authorized public accountant to be selected by them.

#### ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name and to take all proper measures to provide means for its support ; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

#### ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

#### ARTICLE X.

The President shall be a member, *ex-officio*, of all standing committees.

#### ARTICLE XI.

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact

current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

## ARTICLE XII.

By-Laws may from time to time be made by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

## ARTICLE XIII.

The contribution of \$1000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

## ARTICLE XIV.

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

## ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees ; or at a special meeting called for this purpose, nor by the votes of less than a majority of all the Trustees ; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

Patrons, giving \$1000, are each entitled to one Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket, and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket, and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

### III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

## IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

## V.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

## VI.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

## VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VIII.

. At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.



## PATRONS.

MORRIS K. JESUP.  
 ROBERT L. STUART.\*  
 MISS C. L. WOLFE.\*  
 ROBERT COLGATE.\*  
 FREDERIC W. STEVENS.  
 PERCY R. PYNE.\*  
 JAMES M. CONSTABLE.  
 JOHN B. TREVOR.\*  
 ADRIAN ISELIN.  
 HUGH AUCHINCLOSS.\*  
 JOSEPH W. DREXEL.\*  
 WILLIAM E. DODGE.\*  
 JOHN D. WOLFE.\*  
 ABRAM S. HEWITT.  
 C. VANDERBILT.  
 J. PIERPONT MORGAN.  
 CHARLES LANIER.  
 D. JACKSON STEWARD.  
 EDWARD CLARK.\*  
 A. G. PHELPS DODGE.  
 JAMES BROWN.\*  
 A. T. STEWART.\*  
 S. WHITNEY PHOENIX.\*  
 BENJAMIN H. FIELD.\*  
 WILLIAM T. BLODGETT.\*  
 OLIVER HARRIMAN.  
 ROBERT BONNER.  
 JAMES B. COLGATE.  
 ALEXANDER STUART.\*  
 WILLIAM A. HAINES.\*  
 BENJAMIN AYMAR.\*  
 RICHARD ARNOLD.\*  
 JOSEPH H. CHOATE.  
 JONATHAN THORNE.\*  
 MISS PHEBE ANNA THORNE  
 D. O. MILLS.  
 JOHN A. C. GRAY.  
 HEBER R. BISHOP.  
 CHAS. G. LANDON.\*  
 WILLIAM E. DODGE.  
 PETER COOPER.\*  
 WILLIAM H. ASPINWALL.\*

B. H. HUTTON.\*  
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 I. N. PHELPS.\*  
 JAMES STOKES.\*  
 D. WILLIS JAMES.  
 EDWARD MATTHEWS.  
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 JAMES LENOX.\*  
 A. H. BARNEY.\*  
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 JOHN JACOB ASTOR.\*  
 WILLIAM WALDORF ASTOR.  
 CATHERINE L. SPENCER.\*  
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 OSWALD OTTENDORFER.  
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 J. F. LOUBAT.  
 H. J. JEWETT.  
 WM. D. SLOANE.  
 D. G. ELLIOT.  
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 WILLIAM C. SCHERMERHORN.  
 JOHN J. CROOKE.  
 HENRY SELIGMAN.  
 RICHARD T. WILSON.  
 JOHN E. PARSONS.  
 FRANCIS O. MATTHIESSEN.

\* Deceased.

A. J. FORBES-LEITH.  
 GEORGE BLISS.\*  
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 ROWLAND G. MITCHELL, JR.  
 E. A. MOEN.  
 E. C. MOORE.\*

\* Deceased.

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J. PIERPONT MORGAN.  
MANDEVILLE MOWER.  
PERCY MUSGRAVE.  
THOMAS B. MUSGRAVE.  
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HENRY PARISH.  
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JOHN PONDIR.  
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AUGUSTE RICHARD.  
GEORGE RICHARDS.  
CHANDLER ROBBINS.  
ALFRED ROELKER.  
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FRANKLIN D. ROOSEVELT.  
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SPENCER TRASK.  
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BENJAMIN A. WILLIS.  
EDWARD WINSLOW.  
JOHN WOLFE.\*  
HENRY H. WOTHERSPOON.  
JOHN H. WYMAN.\*  
MRS. JOHN J. WYSONG.

\* Deceased.

## ANNUAL MEMBERS.

Abegg, Henry	Barney, N. C.	Bowdoin, G. S.
Abegg, J. H.	Bawden, Wm.	Bradley, S. R.
Abeel, George	Beaman, Charles C.	Bradley, William H.
Acker, Franklin	Beckel, Joseph	Breslin, James H.
Adee, Philip H.	Bedle, Joseph D.	Briesen, Arthur V.
Agnew, John T.	Beckman, Gerard	Briesen, Frank von
Aitken, John W.	Beer, Julius	Briggs, Mrs. J. A.
Aldrich, Mrs. H. D.	Beers, M. H.	Bristol, John I. D.
Alexander, Henry M.	Beinecke, B.	Brockway, A. N., M.D.
Alexander, Jas. W.	Bend, George H.	Brockway, Fred. J., M.D.
Alexander, John F.	Benedict, James H.	Brookfield, Wm.
Alexandre, J. H.	Bentley, Charles E.	Brooks, Charles M.
Allen, Calvin H.	Bentley, John	Brower, Wm. L.
Amend, Bernard G.	Berdell, Theodore	Brown, Alfred S.
Ammon, Adolph	Bernheim, Gustav	Brown, J. Crosby
Amsinck, Gustav	Bernheimer, Mrs. A.	Brown, Vernon H.
Amy, H.	Bernheimer, Charles D.	Bruce, S. D.
Anderson, E. Ellery	Bernheimer, Charles L.	Bryce, William
Andreini, J. M.	Bernheimer, Simon	Burden, Henry, 2d
Appleton, Daniel	Berrian, Charles M.	Burden, James A.
Appleton, Wm. H.	Berwind, Edward J.	Burr, Wm. H.
Appleton, W. W.	Betts, Samuel R.	Butler, Prescott Hall
Archbold, John D.	Bianchi, F.	Butler, Wm. Allen
Archer, George A.	Bien, Julius	Byrne, John
Armour, H. O.	Biglow, Lucius Horatio	
Arnold, E. S. F., M.D.	Bissinger, Philip	Cabot, Dr. John
Arnold, John H. V.	Blagden, George	Calder, George
Aufhauser, Samuel	Bliss, George T.	Calman, Emil
	Bloodgood, John H.	Calman, Henry L.
Babcock, Samuel D.	Blumenstiel, A.	Cammann, H. H.
Baker, Frederic	Blumenthal, Aug	Cannon, H. W.
Baker, Robert B.	Bogert, Henry A.	Carleton, I. Osgood
Baldwin, J. G., M.D.	Bogert, Stephen G.	Carnrick, John
Baldwin, O. D.	Bond, Frank S.	Carter, A.
Ballantine, Robert F.	Bonn, William B.	Carter, James C.
Ballin, Gustav	Bookstaver, H. W.	Carter, Walter S.
Bangs, L. Bolton, M.D.	Booss, Frederick	Cassard, William J.
Banyer, Goldsborough	Borg, Simon	Chambers, Frank R.
Barber, A. L.	Boskowitz, L.	Chesebrough, Robert A.
Barnes, E. W.	Bouton, J. W.	Chichester, Chas. F.
Barnes, John S.	Bowers, John M.	Chisolm, George E.
Barney, Chas. T.		

Chittenden, J.	Davison, C. A.	Ettlinger, Louis
Church, E. Dwight	Day, Edward G., M.D.	Evans, Richard
Cisco, John J.	Day, Henry M.	Evans, William T.
Clark, Cyrus	Day, Miss Lydia	Ewart, James M.
Clark, George C.	Decker, Joseph S.	Ewart, Richard H.
Clark, William N.	Deeves, Richard	Evarts, W. M.
Clarke, Charles C.	de Forest, Robert W.	
Clarke, George C.	De Rham, Charles	Fahnestock, H. C.
Clarke, Thomas B.	deCoppet, Henry	Fairchild, Charles S.
Clarkson, Frederick	DeKlyn, B. F.	Fargo, James C.
Clausen, George C.	DeVinne, Theo. L.	Farnham, Mrs. Horace P.
Cleary, John	De Witt, George G.	Ferris, Frank A.
Cleveland, Treadwell	Delafield, Maturin L.	Flagler, John H.
Clinch, Edward S.	Dewitt, William G.	Fletcher, Andrew
Cochrane, John W.	Dickie, E. P.	Flint, Miss Helena
Coffin, Chas. H.	Dickey, Mrs. Hugh T.	Flower, A. R.
Coffin, Edmund	Dieterich, Chas. F.	Flower, Frederick S.
Coggeshall, Edwin W.	Dimock, Henry F.	Foote, C. B.
Cohen, Samuel M.	Dix, Rev. Morgan, D.D.	Ford, James B.
Colgate, Abner W.	Dodd, S. C. T.	Foster, Edward W.
Colgate, R. R.	Dodge, Cleveland H.	Foster, Scott
Collins, Miss Ellen	Dodge, George E.	Frankenberg, D.
Collins, Miss M. M.	Dodge, Miss Grace H.	Fraser, Alfred
Compton, A. T.	Dodge, Mrs. Wm. E., Jr.	Freeze, Wm. C.
Conger, Henry C.	Dommerich, L. F.	Free, C. Lincoln
Conkling, Rev. Dr. N.W.	Doudge, James R.	Freeborn, G. C., M.D.
Constable, Frederick A.	Dougherty, A.	French, S. A.
Cook, Chas. T.	Doughty, Mrs. Alla	Freygang, George
Cooper, John	Drake, John J.	Frissell, A. S.
Cornell, R. R.	Drakenfeld, B. F.	
Cory, Mrs. S. M.	Draper, Dr. Wm. H.	Gade, Henry
Coster, C. H.	Du Bois, F. N.	Garland, James A.
Cox, Allyn	Du Bois, Dr. Matthew B.	Gay, Joseph E.
Crawford, R. L.	Du Bois, Miss Katharine	Georger, Louis F.
Crocker, George Aug.	Du Bois, William A.	Gibb, John
Cross, Richard J.	Duncan, John P.	Gilberg, Charles A.
Cruger, S. V. R.	Dunham, G. H.	Gillis, Chas. J.
Cummings, Richard	Dunlap, Robert	Goddard, F. N.
Cutting, Robt. Fulton		Godfrey, Chas. H.
Cutting, W. Bayard	Eimer, August	Godkin, Edwin L.
	Einstein, David L.	Goldschmidt, Geo. B.
Daly, Chas. P.	Elder, Mrs. M. A.	Gossler, G. H.
Davenport, Ira	Elliott, Edward	Gotthold, Fred.
Davies, William G.	Ellis, John W.	Grace, Wm. R.
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Davis, Joseph P.	Eno, Amos F.	Graham, Malcolm

- Greacen, Robert A.  
Greenwood, Isaac J.  
Gregory, Chas. E.  
Guggenheimer, Randolph  
Gulliver, William C.  
Gurnee, W. S.
- Haber, Louis I.  
Hague, James D.  
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Halls, William, Jr.  
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Hardenbergh, J. P.  
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Hartley, Marcellus  
Havemeyer, J. C.  
Haven, J. Woodward  
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Hawley, Edwin  
Hawley, Henry E.  
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Hayes, R. Somers  
Haynes, A. E.  
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Hegeman, John R.  
Heminway, Homer  
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Hill, James K.  
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Hinman, W. K.  
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Kellogg, L. Laflin  
Kellogg, Mrs. Chas.  
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Kerbs, Adolf  
Kerner, Charles H.  
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Kingman, Abel Willard  
Kinnicutt, Dr. F. P.
- Klatzl, John C.  
Klenke, William H.  
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Kohlman, Charles  
Kohn, S. H.  
Kohns, L.  
Kraus-Boelte, Mrs. Maria  
Kraus, William  
Kuttroff, Adolf
- Lagowitz, Miss H. L.  
Laidlaw, Henry B.  
Lange, Dr. F.  
Lange, J. D.  
Langmann, G., M.D.  
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Lapham, S. V.  
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Lawrence, Mrs. Samuel  
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Livingston, H. T.  
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Loewi, Valentine  
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Lueder, A.  
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Lyman, T. C.



Mack, J. W.	Moss, John H.	Pray, Joseph M.
Mackenzie, Duncan E.		Purdy, Wm. Macneven
Mackey, Oscar T.	Navarro, Juan N.	Putnam, George L.
Macy, I. Augustus	Nathan, Miss Agnes C.	Putnam, Mrs. Albert E.
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Mali, Charles	Nisbet, William F.	Pyle, Jas. Tolman
Man, William	Nott, Frederick J.	
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Marlor, Henry S.	Olcott, F. P.	Raymond, Charles H.
Marshall, Charles H.	Olmstead, Dwight H.	Reilly, James
Martin, W. M.	Olyphant, R. M.	Renwick, Edward S.
May, Calvin S., M.D.	Olyphant, Robert	Rhineland, Chas. E.
McAlpin, C. W.	Oppenheimer, Dr. H. S.	Rhoades, J. Harsen
McAlpin, D. H.	Owen, Mrs. Thomas J.	Richard, Auguste
McCabe, Rev. C. C.	Owens, Wm. W.	Riker, John L.
McComb, J. Jennings		Riker, Samuel
McCready, Mrs. Caroline A.	Packard, S. S.	Riker, Wm. J.
McCurdy, Richard A.	Paddock, Eugene H.	Rising, Dr. J. Converse
McDonald, John E.	Palmer, N. F.	Robbins, Rowland A.
McGee, James	Palmer, S. S.	Robbins, S. Howland
McIntyre, Ewen	Park, Joseph	Roberts, Miss Mary M.
McKee, Russell W.	Parrish, James C.	Rogers, Henry H.
McKim, Rev. Haslett, Jr.	Parsell, Henry V.	Rolston, Rosewell G.
McLean, George H.	Parsons, Mrs. Edwin	Roosevelt, Charles H.
Mead, Theo. H.	Parsons, Joseph H.	Roosevelt, W. Emlen
Merrall, William J.	Parsons, W. H.	Root, Elihu
Metcalfe, John T., M.D.	Patterson, Edward	Rothschild, J.
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Middleton, A. D.	Peck, Charles E.	Rowell, George P.
Mildeberger, Mrs. John	Pell, Frederick A.	Rowland, George
Miller, D. S.	Pell, John H.	
Miller, Geo. Macculloch	Pellew, Henry E.	Sage, Russell
Milmine, George	Penfold, Wm. Hall	Saltonstall, Francis G.
Mitchell, Alfred	Pentz, Frank R.	Saltus, J. Sanford
Mitchell, John J.	Perry, William A.	Sands, Andrew H.
Mitchill, Mrs. S. L.	Peters, Samuel T.	Sands, Daniel C.
Moir, James	Peters, W. R.	Sands, Mrs. B. Aymar
Moller, Peter, Jr.	Peterson, Frederick, M.D.	Sayre, Lewis A., M.D.
Moore, Mrs. W. D.	Phillips, Guy	Schaefer, Edward C.
Moore, W. H. H.	Pinkus, F. S.	Schaeffer, Hermann
Morgan, George H.	Platt, Isaac S.	Schafer, Samuel N.
Morgan, John	Platt, John R.	Schafer, Simon
Morris, Henry Lewis	Powel, de Veaux	Schastey, George A.
Morrison, George A.	Powell, Wilson M.	Schefer, Carl

- Scheitlin, Edward  
 Schmid, Mrs. August  
 Schultz, Carl H.  
 Schultze, John S.  
 Schwab, Hermann C.  
 Scott, George S.  
 Scribner, Mrs. J. Blair  
 Scudder, Hewlett  
 See, Mrs. Horace  
 Seligman, Isaac N.  
 Sellow, T. G.  
 Sennett, George B.  
 Seton, William  
 Sharp, W. W.  
 Sherman, Charles A.  
 Sidenberg, Gustavus  
 Sill, Charles  
 Simpson, John Boulton  
 Simpson, John W.  
 Sinclair, John  
 Sloan, Samuel  
 Smith, Adon  
 Smith, Charles S.  
 Smith, Geo. W.  
 Smith, James Rufus  
 Smith, John Jewell  
 Smith, Rev. Cornelius B.  
 Smith, William Alex.  
 Smith, W. Wheeler  
 Smyth, Philip A.  
 Snow, Elbridge G.  
 SooySmith, Charles  
 Stachelberg, Mrs. M.  
 Stanton, John  
 Stanton, J. R.  
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 Stearns, John Noble  
 Stebbins, Jas. H.  
 Stechert, Gustav E.  
 Steers, Edward P.  
 Steers, Henry  
 Stephens, Benjamin  
 Stern, Benjamin  
 Stewart, Lisenard  
 Stewart, William R.  
 Stickney, J.
- Stiehl, Gustav H.  
 Stone, Edwin  
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 Stone, Mrs. Georgiana C.  
 Stone, Sumner R.  
 Storm, Clarence  
 Storm, George  
 Strong, Wm. L.  
 Sturges, Henry C.  
 Sutherland, John L.  
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 Tailer, Edward N.  
 Taintor, C. M.  
 Taintor, Charles N.  
 Talcott, James  
 Talmadge, Henry  
 Taylor, Mrs. Aug. C.  
 Taylor, George  
 Taylor, Stevenson  
 Tefft, F. Griswold  
 Tefft, Wm. E.  
 Thomas, T. G., M.D.  
 Thomson, Giraud F.  
 Thompson, W. Prall  
 Tiemann, Daniel F., 3d  
 Tierney, Myles  
 Tiffany, Louis C.  
 Tillinghast, W. H.  
 Titus, E., Jr.  
 Toel, William  
 Tonnelé, John L.  
 Toothe, William  
 Toucey, J. M.  
 Townsend, R. H. L.  
 Townsend, R. W.  
 Tracy, J. Evarts  
 Trevor, H. G.  
 Trevor, Mrs. John B.  
 Troescher, A. F.  
 Turnure, Lawrence  
 Tuttle, Nathaniel  
 Twombly, H. McK.  
 Ullmann, E. S.
- Valentine, Mrs. Lawson  
 Valentine, Wm. A., M.D.  
 Van Brunt, Cornelius  
 Van Brunt, Hon. C. H.  
 Van Ingen, Edward H.  
 Van Norden, Warner  
 Van Pelt, G. S.  
 Van Santvoord, A.  
 Van Vleck, Joseph  
 Van Wickle, A. S.  
 Van Winkle, Edgar B.  
 Van Winkle, Miss E. S.  
 Vandervoort, W. L.  
 Veit, Richard C.  
 Voorhis, Wm. W. L.  
 Wales, Salem H.  
 Walker, William I.  
 Wallace, Lewis  
 Wallach, Antony  
 Ward, Lebbeus B.  
 Ward, Mrs. Thomas  
 Wardwell, Wm. T.  
 Warner, Lucien C.  
 Waterbury, John I.  
 Watson, Miss Emily A.  
 Weatherbee, Mrs. E. H.  
 Webb, W. H.  
 Weed, Benjamin  
 Weed, Geo. E.  
 Weekes, John A.  
 Wehrhane, Chas.  
 Westcott, Robert E.  
 Wetherbee, Chas. L.  
 Wetmore, Dr. John McE  
 Wheelock, Dr. W. E.  
 Wheelock, Geo. G., M.D.  
 Wheelock, Wm. A.  
 Whipple, L. Edmund  
 White, Horace  
 Whitehead, Charles E.  
 Whitely, James  
 Whitney, Alfred R.  
 Wicke, William  
 Wickes, Edward A.  
 Wickham, Delos O.

Wiebusch, Chas. F.	Wing, John D.	Young, Edward L.
Williams, George G.	Witherbee, Frank S.	Young, Reginald
Williams, Richard H.	Wood, Mrs. Henry R.	
Wills, Charles T.	Woodward, F. F.	Zabriskie, Andrew C.
Wilmurt, Thos. A., Jr.	Wray, Miss Cornelia S.	Zickel, S.
Wilson, George	Wright, Benjamin	Zinsser, Aug.
Wilson, John	Wright, Miss F. E.	Zinsser, Wm., J.,
Wilson, Washington	Wurzburger, A.	Zollikoffer, O. F.

## DECEASED ANNUAL MEMBERS,

1897.

Abbott, Frank, M.D	Goldenberg, Simon	Plyer, Charles W.
Baldwin, C. C.	Goodridge, Frederick	Potter, Howard
Bell, Isaac	Hillhouse, Thos.	Randall, Otis W.
Blatchford, Samuel M.	Hinrichs, Chas. F. A.	Scholle, Jacob
Bliss, George	Houghton, Rev. G. H.	Seligman, David J.
Butler, Charles	Iselin, Mrs. Adrian	Shethar, Samuel
Colgate, Samuel	Ketcham, E.	Skidmore, William L.
Dickey, Charles D.	Knickerbacker, H.	St John, William P.
Ehrmann, Julius	Lehman, M.	Strong, Charles E.
Fleet, Oliver S.	Lusk, William T., M.D.	Thorn, Mrs. William K
Fosdick, Chas. B.	Morrison, Edward	Toplitz, L.
Goelet, Ogden	O'Donohue, Joseph J.	Van Slyck, W. H.
		Worthen, W. E.

## In Memoriam.

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At the Regular Quarterly Meeting of the Board of Trustees of the AMERICAN MUSEUM OF NATURAL HISTORY, held May 10th, 1897, the following minute in regard to the death of

### **THEODORE A. HAVEMEYER**

was unanimously adopted, ordered to be recorded in full, and that a copy be sent to the family of the deceased :

The Trustees, with the deepest regret, record on their minutes their sincere sorrow at the death of their friend, THEODORE A. HAVEMEYER.

Mr. HAVEMEYER was a valued associate, whose interest in the growth and advancement of this Institution was constant and helpful.

His financial assistance was always generous, and his counsel wise and invaluable.

As a member of the Auditing Committee, of which he became a member in 1892, at the time of his election to the Board, his association with the practical affairs of the Museum was intimate, and in that capacity his keen sense of responsibility conferred upon his services an especial value.

The Trustees, conscious of the deep loss his death implies to the interest they represent, desire to record their earnest tribute to a character that was generous and amiable, and endowed with the most honorable qualities of manhood, that they deplore his loss, recognizing how sustained was his assistance in their purpose of public education, how serviceable was his counsel, and how unstinted his financial aid ; that they earnestly extend to his bereaved family their sympathy and condolence, and with deference to their sorrow, express the hope that to them, the inspiring remembrance of his many virtues will be a consolation in their deep affliction.



## FORM OF BEQUEST.

---

*I do hereby give and bequeath to* "THE AMERICAN MUSEUM OF  
NATURAL HISTORY," *in the City of New York,*.....

.....

.....





THE  
American Museum of Natural History

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park, West.)



ANNUAL REPORT OF THE PRESIDENT,

TREASURER'S REPORT,

LIST OF ACCESSIONS,

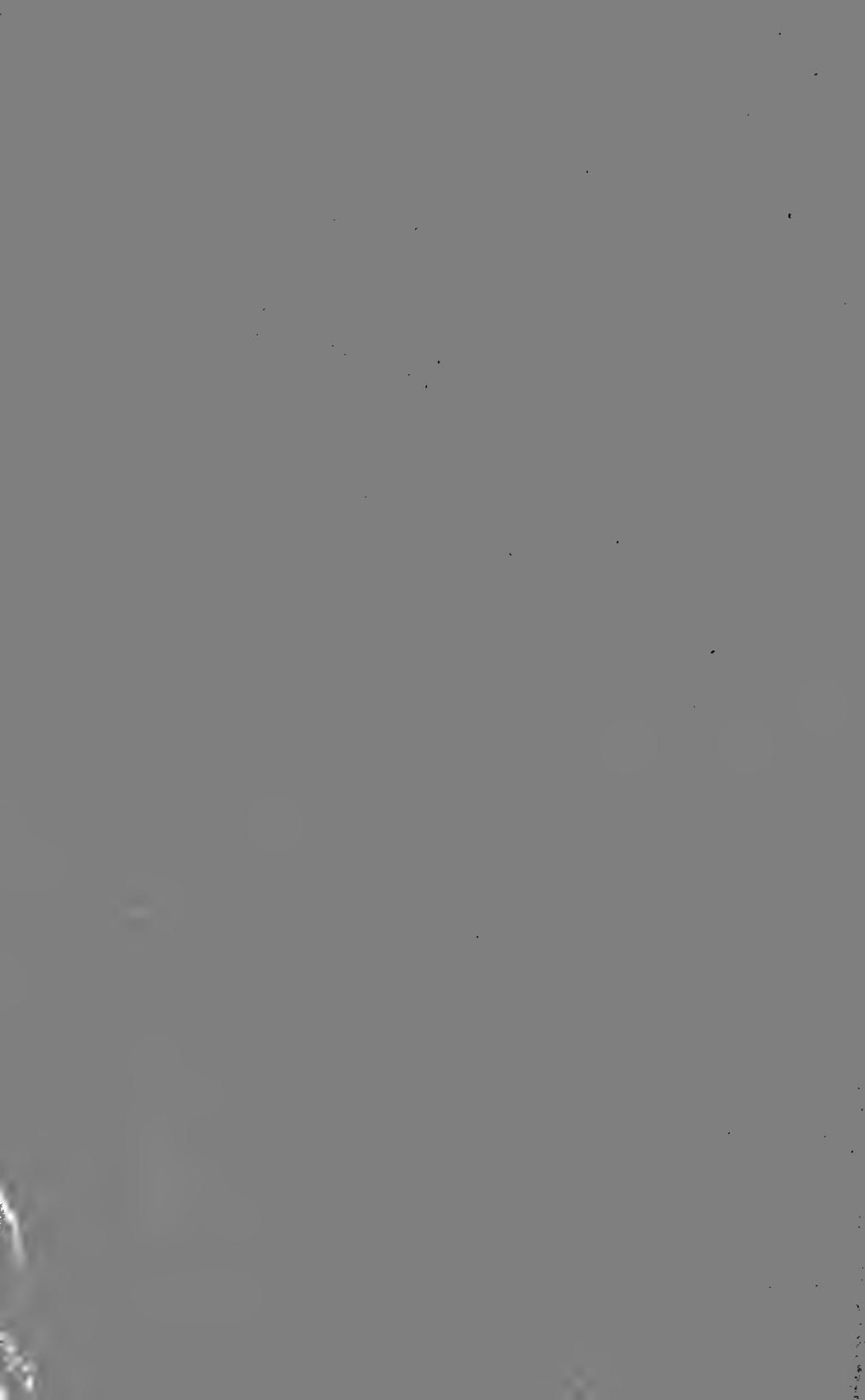
ACT OF INCORPORATION

CONSTITUTION,

BY-LAWS AND LIST OF MEMBERS

FOR THE YEAR 1893.

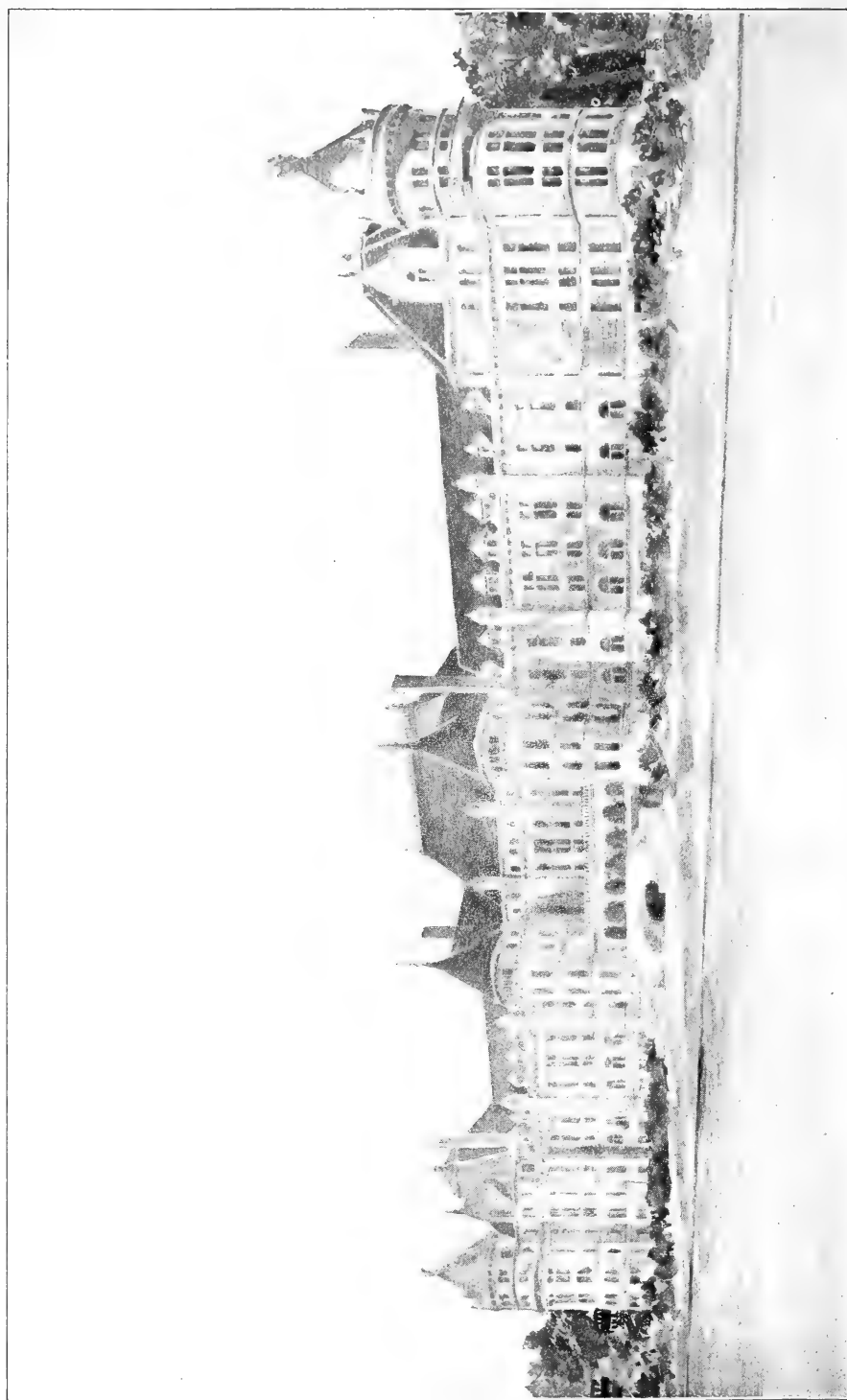
PRINTED AT THE MUSEUM.



THE  
AMERICAN MUSEUM OF NATURAL HISTORY.







PERSPECTIVE VIEW OF SOUTH FRONT OF MUSEUM, SEVENTY-SEVENTH STREET.

THE  
AMERICAN MUSEUM OF NATURAL  
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park, West.)

---

ANNUAL REPORT OF THE PRESIDENT,  
TREASURER'S REPORT, LIST OF ACCESSIONS,  
ACT OF INCORPORATION, CONSTITUTION,  
BY-LAWS AND LIST OF MEMBERS

FOR THE YEAR 1898



NEW YORK:  
PRINTED FOR THE MUSEUM.

---

1899.

THE KNICKERBOCKER PRESS, NEW YORK



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1899.

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FOR 1899.

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SUPERINTENDENT OF BUILDING.

WILLIAM WALLACE.

## FORM OF BEQUEST.

---

*I do hereby give and bequeath to "THE AMERICAN MUSEUM OF  
NATURAL HISTORY," of the City of New York, .....*

.....

.....

## THIRTIETH ANNUAL REPORT.

---

### *To the Trustees and Members of the American Museum of Natural History:*

I present herewith my annual report of the progress of the Museum for the year ending December 31, 1898.

The Budget for the year, approved at the Annual Meeting of the Trustees, showed an estimated deficit in the receipts of \$21,346, of which \$15,152 was for account of Maintenance, and \$6,194 for Endowment.

Attention is directed to the details of the Treasurer's report on pages 28-31.

ADDITIONS TO THE BUILDINGS. — The construction of the additions to the east and west wings and of the new lecture hall have steadily progressed. Some delay occurred, however, by reason of the uncertainty regarding the limit of the City debt, and the difficulty in securing the granite as rapidly as was required. As a consequence the buildings are not in as forward a state of preparation as was predicted in my report of last year; but it is now expected and hoped that the buildings will be completed during the year 1899.

LEGISLATION. — A law was passed at the session last year entitled Chapter 303 of the Laws of 1898, by which Section 3 of the Act of Incorporation was amended to read as follows:—  
“Said corporation may take and hold by gift, devise, bequest, purchase, or lease, either absolutely or in trust, for any purpose comprised in the objects of the corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.”

By its terms the Trustees are not restricted in the amount of real and personal estate which they may hold for the endowment of the Institution.

At the Annual Meeting held in February last, Messrs. H. O. Havemeyer and A. D. Juilliard were elected Trustees.

MEMBERSHIP.—Messrs. A. D. Juilliard and H. O. Havemeyer became "Patrons"; and Messrs. Samuel R. Betts, Frederick Billings, Banyer Clarkson, Henry H. Cook, Cleveland H. Dodge, Carl Eickemeyer, James B. M. Grosvenor, Bernard G. Gunther, Wm. F. Havemeyer, Arthur Curtiss James, Joseph Loth, John G. Moore, Francis Lynde Stetson, Miss Matilda W. Bruce, and Mrs. Wm. M. Macy, Jr., were elected "Life Members."

We have lost by death during the year Dr. Wm. Pepper, H. J. Jewett, and John A. C. Gray, "Patrons"; and Robert G. Remsen, and George Garr, "Life Members." A list of the deceased annual contributors is incorporated at the close of the report.

It became my sad duty to announce at the Annual Meeting of the Trustees the death of our esteemed associate, Daniel Jackson Steward.

Mr. Steward was one of the incorporators of the Museum, and for twenty-nine years had served the interests of the Institution with enthusiasm and fidelity in all that tended to promote its educational and scientific advancement. He lived to see its remarkable growth and the wide extent of its influence.

The large and important collection of shells made by him and donated to the Museum, and which bears his name, is now on exhibition in the upper hall of the main building.

ACCESSIONS.—The numerous accessions received during the year are recorded in detail in the later pages of the report.

The Museum is indebted to the Duke of Loubat for donations to the Department of Anthropology, and the Library. He has defrayed the expense of making casts from the great monoliths and sculptures of Quirigia, Santa Lucia, and other places in Guatemala; from Copan in Honduras; and from many of the sculptures in Mexico; he has provided the means for the continuance of this work to such an extent that the Museum will receive a full series of the casts from the Peabody Museum moulds. He has also presented many large photographs of various sculptures and hieroglyphic slabs in Central America, and given copies of the Codex Vaticanus and Codex Borgiano, which he has had reproduced.

By the gifts of the Duke of Loubat, through Museum expeditions, and by the purchase of specimens the Museum now offers

to the student of Mexican and Central American Archæology unrivalled opportunities for the study of the sculptures and hieroglyphic writings of the ancient peoples of these portions of America.

The investigation of the glacial deposits in the Delaware Valley, near Trenton, has been continued for more than a year under the patronage of Dr. Frederick E. Hyde and has resulted in the addition of very important material to the Department of Anthropology.

Dr. Franz Boas, assistant curator in charge of the ethnological collections, visited Europe during the summer, the expense being defrayed by the Trustees. The object of Dr. Boas's trip was to examine the collections in the various museums and to make arrangements for an exchange of specimens with the ethnological Museums of Berlin and Dresden. These exchanges have proved of value to our Museum in filling a number of gaps, and the result shows that our duplicate American material can be largely used in making judicious exchanges with foreign museums.

Through the liberality of Mr. Jacob H. Schiff, Dr. Boas purchased a collection illustrating the manufacture and use of iron by the natives of Africa, and also a collection illustrative of the use of the cocoa palm by the natives of Melanesia. These collections will be utilized in the preparation of ethnic groups illustrating the use of the various natural products of different peoples.

A large quantity of archæological material has been received through the exploration carried on by the brothers B. T. B. Hyde and F. E. Hyde, Jr., among the ruins of the prehistoric Pueblo Bonito, in New Mexico, which was supplemented by their purchase of a collection of great scientific importance from the cliff houses and caves of the Grand Gulch region of southern Utah. The work conducted under the auspices of the Messrs. Hyde is more fully dwelt upon under the report of expeditions.

Through the efforts of Mr. Francis C. Nicholas, general manager of the South American Exploration Company, a large number of important archæological objects have been given by his associates in this corporation, to which due reference is made in the detailed list of donations to the department.

An extensive collection of Ainu objects from the Island of Yezo, Japan, was secured by Mr. Arthur Curtiss James, while in

Yezo, during the cruise of the 'Coronet,' and was presented by him to the Museum. The collection consists of garments, ornaments, utensils, weapons, and other objects illustrating the customs of these people.

A large and beautiful collection of Apache baskets and water bottles is the gift of Prof. James Douglas.

Mr. B. Talbot B. Hyde has given an interesting series of objects illustrating the making of a Navajo blanket, consisting of sheep pelts, wool, native dyes, loom and weaving implements, a loom with blanket partly woven, and a full series of photographs showing the Indian at work in the different stages of its manufacture.

Late in the year a collection of objects from the islands of the Western Pacific Ocean was purchased by the Trustees from Dr. Otto Finsch of Leiden. In this collection is material illustrating the physical anthropology of the tribes of Melanesia and Micronesia. It also contains a systematic collection of objects illustrating the manufactures, arts, and customs of the people of these great groups of islands. There is a detailed catalogue of the collection and many drawings by Dr. Finsch with an account of the culture of the tribes he met with during the several years he was engaged in his researches.

The mineral collection has been enriched by a number of large and very important specimens presented by Miss M. W. Bruce. Many handsome specimens have also been added by purchase.

A collection of fresh-water and land shells, containing over 1,000 species and nearly 18,000 specimens, was received under the terms of the will of the late Prof. Edward D. Cope.

The Department of Vertebrate Zoölogy has received 1,246 mammals, 545 birds, 1,000 eggs, 25 reptiles, and 190 fishes, the latter received from the Department of Parks, through Dr. Tarleton H. Bean.

Important accessions have been received on account of the James M. Constable Expedition to the Northwest Territory.

We are indebted to Mr. G. O. Shields of this city for a family group, comprising the male, female, and young of the Rocky Mountain goat.

Valuable material has been received for bird groups, including a series of sea birds from Bird Rocks, in the Gulf of St. Law-



rence ; for a Brown Pelican group, from Florida, and for several groups of land birds, to fill gaps in our series of New York birds. Specimens have also been acquired for the local mammal groups, which are well under way.

The Department of Parks has contributed 48 specimens of mammals, and 44 of birds.

We are indebted to the generosity and public spirit of the Very Reverend Doctor Eugene A. Hoffman for the gift of a collection of butterflies from Mexico, Central and South America, numbering 2,250 specimens.

Fourteen enlarged transparencies of selected types of trees, photographed from nature, have been added to the "Jesup Collection of North American Woods." These pictures are displayed in the windows of the Wood Hall, and are provided with transparent labels. Eighteen specimens of trees new to the collection have also been added.

The Library has received a very notable accession in the Marcou collection of works on geology, presented to the Trustees by his heirs, Mr. John Belknap Marcou and Dr. Philippe Marcou. This library was formed by the late Prof. Jules Marcou, an eminent authority in this domain of science, whose reputation is world-wide. This gift comprises about 3,000 volumes and a large collection of maps. It had the distinction of being (with one exception) the largest private library of its kind, and, it is claimed, places the Museum in possession of the most complete collection of literature on geology and palæontology in America. The Trustees are to be congratulated upon the generosity of the donors in selecting this Museum as their beneficiary. The scientists and students of New York will appreciate the opportunity for reference they will enjoy from the location of the library in this city.

During the year, the Duke of Loubat presented to the library 76 volumes and a number of pamphlets on Mexican Archæology, besides 10 large albums of photographic views pertaining to Ceylon and Java, and the ruins of Palenque, Mexico.

The Department of Vertebrate Palæontology has received from its exploring parties a very important collection of skeletons and parts of skeletons of fossil reptiles and mammals, as mentioned in the detailed list of accessions.

EXPEDITIONS.—The third year of the explorations carried on under the auspices of the Messrs. B. T. B. Hyde and Frederick E. Hyde, Jr., was a very successful one. The investigation of the ruins of the prehistoric Pueblo Bonito in New Mexico was made under the personal direction of Mr. George H. Pepper, and a large amount of interesting material was secured. Photographic views were made illustrative of the progress of the exploration of the ruins, and showing the objects in place as they were disclosed.

In furtherance of their intention of providing for the Museum a complete collection of the material of the pueblo and cliff-house regions of the Southwest, the Messrs. Hyde purchased a collection of great scientific interest, collected by Mr. Richard Wetherell from the cliff houses and caves of the Grand Gulch region of southern Utah. This collection comprises mummies and funeral objects of a people who, it is claimed, are distinct from the cliff dwellers, and who also preceded the cliff-house people of this region. This work is done under the direction of the Department of Anthropology, and is conducted solely at the expense of the Messrs. Hyde.

The explorations near Trenton, N. J., have been prosecuted without intermission. Dr. Frederick E. Hyde very generously subscribed the sum required for this purpose, and he will contribute funds for the continuance of the work during 1899.

The explorations in Bolivia, under Dr. A. F. Bandelier, were successfully continued during the past year. The explorer transferred the scene of his operations from Peru to the eastern portion of Bolivia, sending in January last a considerable number of specimens; and notice has also been received that another large shipment of objects is on the way. His latest work has been among ruins and burial-places unlike those explored by him in Peru, and will add to the Museum new and interesting material.

In my last report reference was made to the investigations being made by Mr. Marshall H. Saville, under the terms of arrangement between this Institution and the Government of Mexico. Mr. Saville continued his researches until the climatic changes compelled a return to his duties at the Museum. Three tombs were examined and their structure noted. On his return from Palenque, Mr. Saville made an ethnological collection from

the several tribes of Indians met by him, providing material unrepresented in this division of the Museum. He next visited ruins at Xoxo and Monte Alban, State of Oaxaca, where with a force of thirty natives he excavated several large mounds, remaining here forty-three days. His attention was next turned to the well-known ruins at Mitla, where he secured a further number of objects of much interest. The explorations thus far made under the authority of the Mexican Government show the importance of further work at the two localities in Oaxaca. If another expedition can be sent the coming autumn to work uninterruptedly at these places during an entire working season, there is little doubt that a very considerable addition to our Mexican collections could be secured and many important archæological problems solved.

In order to obtain further information relating to certain Mexican tribes, particularly in relation to their religious ceremonials, among which he had made extended researches during the previous year, Dr. Carl Lumholtz made a four months' trip to Mexico, bringing back an unique collection of exceeding interest. Dr. Aleš Hrdlička was associated with him for the purpose of making a series of anthropometrical records and observations on the physical character of several of the Indian tribes, and to collect as many human skeletons as possible. Dr. Hrdlička also secured a number of life masks of these Indians, and the burial caves which he investigated yielded many human skulls and skeletons. The material thus acquired is essential for comparative study of the past and present tribes of eastern Mexico.

Prof. F. W. Putnam, curator of the Department of Anthropology, reports that "The Jesup North Pacific Expedition has had seven parties in the field. During 1897 the field work of the Expedition was confined to the coast of British Columbia. In 1898 the work was taken up on a more extended scale. Parties were in the field on the coast of the State of Washington, in the southern interior of British Columbia, and on the Amoor River in Siberia. The parties in charge of the work on the American Continent returned at the beginning of winter; the work in Asia is still being carried on. The collections made by the various field parties of the Expedition are now in large part exhibited in the Museum. These exhibits show, in a systematic manner,

the result of archæological work in the interior of British Columbia and on the coast. The ethnological collections are very comprehensive in regard to the tribes of Thompson River, of the northern part of Vancouver Island, and of the central parts of the coast of British Columbia. Material from the parties working in Siberia, in charge of Dr. Laufer, cannot, however, be expected for several months."

The investigations made thus far have brought together a mass of data, the value of which will be made known as the reports and spécial memoirs are prepared and published.

TRANSPORTATION.—I desire to again record our indebtedness to the friends from whom the Museum has received aid in the transportation of men and material during the season of field work.

The New York and Cuba Mail Steamship Co.; the Wells, Fargo Express Co.; the Southern Railway, and the New York Central & Hudson River Railroad Company, and allied lines, have extended important assistance in the transportation of our material collected in Mexico and the West.

Our thanks are also due to Mr. J. Pierpont Morgan, Mr. C. P. Huntington, Sir Wm. C. VanHorne, Messrs. George J. Gould, J. Stuart Mackie, and E. T. Jeffrey for their cordial consideration of the wants of the Museum.

DEPARTMENT OF ANTHROPOLOGY.—At no period in the history of this department has so much been done for its development or so many additions been made to its collections as during the past year.

The west wing has been completed, adding several new halls for exhibition purposes, and increased facilities for laboratory work have been supplied by new workrooms on the upper floor. The lower hall in this wing has been provided with cases, which have been filled with ethnological objects, and is now ready to be opened to the public. The gallery above is cased, in which the collections from South America are now being arranged. The large hall on the third floor, which will be devoted entirely to the archæological collections from Mexico and Central America, is in an advanced state of arrangement; this hall and the gallery will be ready to open to the public within the year to come.

The material in the North Hall has been readjusted with the



ROCK-CARVING ON VANCOUVER ISLAND. JESU'P NORTH PACIFIC EXPEDITION.



intention that the hall is ultimately to contain only the ethnology of the North Pacific Coast of America. When the transfer of several small collections is finished, the cases on the east side of the hall will contain only the Emmons and Bishop collections from British Columbia, while in the cases on the west side will be exhibited the collections made by the parties of the Jesup North Pacific Expedition.

The principal collections received during the year, which have been catalogued and prepared, are the collections from Japan; collections from the Jesup North Pacific Expedition, 1898; collection illustrating the African iron industry; collections made in Mexico; the exchange collections obtained from the ethnological Museums of Berlin and Dresden; and the large collections of casts of sculptures from Mexico and Central America. The entries made in the department catalogue during the year number 21,120.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—After planning for the field work of the season in Kansas, Nebraska, and Wyoming, Professor Osborn, the curator of this department, went abroad and visited the Museums of Amsterdam, Brussels, Berlin, St. Petersburg, Moscow, Leipsic, Halle, Vienna, Munich, Stuttgart, Darmstadt, Basle, Lyons, Paris, and London. Methods of exhibition were studied, and arrangements were made for exchanges with our Museum, several of which have already been effected.

The second expedition for Dinosaurs was sent out to Wyoming in charge of Dr. J. L. Wortman, with a party of four. Deposits of Dinosaur bones very favorably situated were found. The party remained in camp at this place from its opening in June until the close of the field season on October 1, leaving one of its members in charge in order to prevent a 'jumping' of the Museum claim upon this remarkable locality. In all some 60,000 pounds of fossils were secured. This splendid collection reached the Museum entirely uninjured, and one third of it has already been worked out, under the direction of the preparator, Mr. Hermann.

The fore and hind limbs of these monster reptiles will furnish subjects of great interest for the public. The exhibition hall has been enriched this year by the skeletons of two great Dinosaurs.

A beautiful series of photographs was taken representing the successive stages of development of this quarry, the complete excavation of which will probably occupy several years.

A second party, under the direction of Dr. W. D. Matthew, was operating in the fossil beds of northwestern Kansas and southwestern Nebraska. The Bad Lands of northeastern Colorado were also found to be a rich collecting ground. Skulls and parts of skeletons were secured, filling many important gaps in our collection. Portions of skeletons and skulls of fossil camels were found, among which is included a gigantic one of the size and proportions of the giraffe. The party also acquired a large amount of similar material to which detailed reference cannot be made within the limits of my report.

Through the kindness of Mr. J. Pierpont Morgan, Mr. Charles Knight, under the supervision of the curator, has continued his restorations of extinct animals and has added five beautiful water-colors to the series, besides completing five models. These restorations of the Extinct Animals of North America have been furnished to the Museums of London, Munich, Brussels, Oxford, Stuttgart, and Cape Town.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE ZOÖLOGY.—The most important work carried on in this department has been the continuation of the cataloguing of the types of the Hall Collection. This has now reached a point where renewed appropriations are needed for the expenses of publication. It is unnecessary to dwell upon the importance of this catalogue in view of its being a permanent record of the type specimens of the Hall Collection. Its publication will increase the value of the collection, besides making it more attractive to students of palæontology. In this connection I have observed the need of setting apart a room for the convenience of students who may desire to consult these collections.

Special attention is directed to the case holding the malachites and similar material presented by the Copper Queen Consolidated Mining Company, which is now exhibited in the north windows of the mineral hall.

The collection of corals has been notably increased, and special attention is directed to two specimens of great beauty collected by Prof. Whitfield. These objects are displayed,



respectively, at the north and south ends of the palæontological hall.

DEPARTMENT OF VERTEBRATE ZOOLOGY.—I regret to note that the increase in the number of specimens in this department is not equal to that of former years.

Owing to the changes made in the transept of the west wing by the construction of stairways, the mammals formerly displayed there have been removed, temporarily, and cannot be permanently installed until the addition to the east wing, now under construction, is completed. New space has been provided, however, for the installation of the local and other special collections of birds and mammals, which will be especially instructive to students of our local fauna and useful to the teachers and pupils of our public schools. The cases are now ready and the installation will soon be completed.

During the coming year a number of large mammals will be mounted for the North American collection, and others for the general collection of mammals, from the material now on the way from South America and Central America. Several hundred birds will also be mounted for the local and other special collections.

During the year Mr. Frederick M. Holbrook has kindly identified and catalogued the turtles; the fishes received from the New York Aquarium have been identified and catalogued by Dr. Tarleton H. Bean.

DEPARTMENT OF ENTOMOLOGY.—The Hoffman Collection of North American Butterflies has been arranged, labeled, and placed on exhibition. About 1200 specimens of the Hoffman Collection of butterflies from Mexico, Central and South America have been mounted on tablets, and two cases have been filled with the material ready for exhibition.

Two cases containing silk-producing moths, with their cocoons, have been added to the exhibition collection, together with a very interesting exhibit showing the mimicry of insects.

Some field work has been carried on during the vacation season, through which a large amount of material has been added to the local collection representing the varieties of insects found within a radius of fifty miles from New York City. This collection will be made as complete as possible by the addition of the material illus-

trating the life-history and the food plants of the various species, and will serve to stimulate the interest of visitors, and also to invest the collection with a greater value for teachers and students.

The collection of beetles has been revised and the large and unique specimens selected for exhibition. The specimens which are too minute to be easily examined will be accompanied by outline drawings, showing the structural characters of the species.

LIBRARY.—The librarian reports accessions during the year equal to 5839 volumes. The library now contains 41,691 volumes, including the recently acquired Marcou Library. The library is in great need of funds for binding periodicals, and for the purchase of a large number of standard works of reference in various departments of science.

DEPARTMENT OF PUBLIC INSTRUCTION.—I note with great pleasure the increasing interest manifested by our citizens in the work of the Department of Public Instruction. Prof. Albert S. Bickmore, in charge of this branch of the Museum's work, reports that the twenty lectures to the Teachers of the Public Schools, delivered by him under the auspices of the State Superintendent of Public Instruction, had an attendance of more than 17,000 persons. Over 8000 persons attended his Spring and Autumn Courses to Members of the Museum, and the free lectures to the public, given by him on holidays, were attended by nearly 4000 persons.

The popularity of the lectures delivered at the Museum to the Teachers of the Public Schools is evinced in the request from the Board of Education, through Dr. Henry M. Leipziger, Superintendent of Lectures, for duplicates of the slides and text of these lectures, for incorporation in the free courses to the public. A series of these lectures were given on Tuesday evenings at the Museum, the attendance being so great that on each occasion several hundred persons were unable to gain admission.

LECTURES TO THE TEACHERS OF THE PUBLIC SCHOOLS BY  
PROF. ALBERT S. BICKMORE.

*Spring Course.*

Lecture	—West Indies—The Lesser Antilles.
"	—Colorado River and its Cañons.
"	—Southern California.
"	—Washington and Oregon.
"	—British Columbia.

*Report of the President.*

21

*Autumn Course.*

- Lecture —North Atlantic Ocean—The Bermudas.  
“ —Cuba—Havana and Santiago.  
“ —Jamaica and Porto Rico.  
“ —Northern Russia—St Petersburg.  
“ —Central Russia—Moscow.

*Holiday Course.*

- New Year's Day—Italy—Rome.  
Washington's Birthday—Italy—Florence and Venice.  
Thanksgiving Day—North Atlantic Ocean—The Bermudas.  
Christmas—Cuba—Havana and Santiago.

PROF. ALBERT S. BICKMORE'S COURSE TO MEMBERS OF THE MUSEUM.

*Spring Course, 1898.*

- Feb. 10.—Northern Italy—Florence and Venice.  
“ 17.—West Indies.  
“ 24.—Colorado River and its Cañons.  
Mar. 3.—Southern California.  
“ 10.—Washington and Oregon.

*Autumn Course, 1898.*

- Nov. 10.—North Atlantic Ocean—The Bermudas.  
“ 17.—Cuba—Havana and Santiago.  
Dec. 1.—Jamaica and Porto Rico.  
“ 8.—Russia—St. Petersburg and Moscow.

COLUMBIA UNIVERSITY COURSE, 1898.

- Jan. 8.—Mining, Ancient and Modern.....Mr. John A. Church.  
“ 15.—Mining of Low Grade Ores.....Prof. Henry S. Munroe.  
“ 22.—Mining at Lake Superior.....Mr. J. Parke Channing.  
“ 29.—Metal Mining.....Prof. George W. Maynard.  
Feb. 5.—Mechanical Sources of Energy.....Prof. Frederick R. Hutton.  
“ 12.—Generation of Electrical Energy.....Prof. Francis B. Crocker.  
“ 19.—Transmission of Electrical Energy.....Dr. A. E. Kennelly.  
“ 26.—Utilization of Electrical Energy.....Prof. William A. Anthony.  
Mar. 5.—Some Features of Modern Bridge Construction.....Wm. H. Burr.  
“ 12.—Recent Campaigns in the Soudan.....Henry G. Prout.  
“ 19.—Masonry.....George S. Morrison.  
“ 26.—The Development of the Steamship.....Horace See.  
Dec. 3.—Wave Motion.....  
“ 10.—Visible Radiant Energy.....  
“ 17.—Radiant Heat.....  
“ 31.—Electrical Radiation.....
- } Prof. William Hallock.

NEW YORK BOTANICAL GARDEN LECTURES, 1898.

- Mar. 24.—Hardy Flowering Shrubs and Perennials..Mr. Cornelius Van Brunt.  
“ 31.—A Botanist's Rambles in the Mountains of Oregon.  
Prof. Francis E. Lloyd.

## LINNEÆAN SOCIETY LECTURES, 1898.

- Jan. 6.—Cats, and the Lands they Inhabit.....Prof. Daniel Giraud Elliot.  
 Feb. 3.—From Vera Cruz to Mexico.....Mr. Frank M. Chapman.  
 Mar. 17.—The Mammals of North America.....Mr. Ernest Seton Thompson.  
 April 7.—Protective and Directive Coloration of Animals.  
 Dr. C. Hart Merriam.

## BOARD OF EDUCATION LECTURES, 1898.

- Jan. 11.—From Lexington to Yorktown .....Mr. W. W. Ellsworth.  
 “ 18.—North American Indians.....Mr. F. S. Dellenbaugh.  
 “ 25.—Ireland.....Mr. Thomas McVeagh, Jr.  
 Feb. 1.—The Homes, Habits, and History of the French People,  
 Prof. H. E. Northrop.  
 “ 8.—The Life of the Swiss Peasantry.....Mr. W. D. McCrackan.  
 “ 15.—Holland's War with the Sea.....Prof. J. H. Gore.  
 “ 22.—Wonders of Modern Science.....Mr. W. J. Clarke.  
 Mar. 1.—Norway: the Land of the Midnight Sun...Mr. Gilbert Ray Hawes.  
 “ 8.—Earthquakes: Their Results and what is Known of their Causes.  
 Mr. Cyrus C. Adams.  
 “ 15.—To the Summit of the Matterhorn.....Miss Annie S. Peck.  
 “ 22.—Volcanoes, Ancient and Modern.....Dr. E. O. Hovey.  
 “ 29.—The Austrian Alps and the Tyrolese.....Prof. H. E. Northrop.  
 April 5.—Light and Color.....  
 “ 12.—The Electric Current; Its Chemical  
 and Heating Effects.....  
 “ 19.—The Electric Current; Its Magnetic  
 Effects.....  
 “ 26.—The Electric Current; Its Inductive  
 Effects.....  
 } Mr. E. R. Van Nardroff.  
 Oct. 11.—China, the Middle Kingdom .....  
 “ 18.—Korea, the Pigmy State.....  
 “ 25.—Japan, the Island Empire.....  
 } Mr. W. E. Griffis.  
 Nov. 1.—The United States and the Pacific Ocean....  
 “ 8.—Wonders and Beauties of Ceylon.....Mr. G. N. Thomsen.  
 “ 15.—Arabia.....Dr. Stephen Hasbrouck.  
 “ 22.—The Bedouins of Arabia and Palestine.  
 Mr. Peter von Finkelstein Mamreov.  
 “ 29.—Constantinople .....Mr. Hovhannes Samuelian.  
 Dec. 6.—Russia: Moscow to Nijni Novgorod by Way of the Ural  
 Mountains .....Dr. E. O. Hovey.  
 “ 13.—Russia: St. Petersburg to Bakon; The Caucasus. Dr. E. O. Hovey.

## RECEPTIONS AND EXHIBITIONS.

New York Academy of Sciences, April 13 and 14.  
 Annual Meeting of the Audubon Society, Feb. 9.  
 New York State Science Teachers' Association, Dec. 30.

PUBLICATIONS.—The publications of the Museum issued during 1898 greatly exceed those of any preceding year, and include the following: Volume X of the Bulletin, consisting of pp. i-x and 1-

448, with 24 plates and 75 text figures; Part 1 of Volume XI of the Bulletin, pp. 1-72; Part 3 of Volume I of the Memoirs, pp. 75-164, with pll. xiiia-xx; and Parts 1 and 2 of Volume II of the Memoirs, pp. 1-128, with pll. i-xii. Volume II of the Memoirs will relate exclusively to the results of the Jesup North Pacific Expedition. A list of the articles published in 1898, arranged by departments, is as follows:

## DEPARTMENT OF INVERTEBRATE PALÆONTOLOGY.

Notice of a Remarkable Specimen of the West Indian Coral *Madrepora palmata*. By R. P. Whitfield. (Bull. X, pp. 463, 464, pl. xxiv.)

Catalogue of Types and Figured Specimens in the Palæontological Collection of the Geological Department, American Museum of Natural History. By R. P. Whitfield, assisted by E. O. Hovey. (Bull. XI, pp. 1-72.)

## DEPARTMENT OF VERTEBRATE ZOÖLOGY.

Notes on Birds observed at Jalapa and Las Vigas, Vera Cruz, Mexico. By Frank M. Chapman. (Bull. X, pp. 15-43, pl. iii.)

Notes on Fishes received at the New York Aquarium, with a Description of a New Species of Snapper from Bermuda. By Tarleton H. Bean. (Bull. X, pp. 45-50.)

Descriptions of New Mammals from Western Mexico and Lower California. By J. Allen. (Bull. X, pp. 143-158.)

Notes on Mexican Fishes obtained by Dr. Carl Lumholtz. By Tarleton H. Bean. (Bull. X, pp. 165-168.)

Revision of the Chickarees, or North American Red Squirrels (Subgenus *Tamiasciurus*). By J. A. Allen. (Bull. X, pp. 249-298.)

Descriptions of Three New Forms of Pocket Mice from the Mexican Border of the United States. By Edgar A. Mearns. (Bull. X, pp. 299-302.)

A Study of the Vertebrate Fauna of the Hudson Highlands, with observations on the Mollusca, Crustacea, Lepidoptera, and Flora of the Region. By Edgar A. Mearns. (Bull. X, pp. 303-352.)

Nomenclatorial Notes on Certain North American Mammals. By J. A. Allen. (Bull. X, pp. 449-461.)

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

A Complete Skeleton of *Teleoceras fossiger*. Notes upon the Growth and Sexual Characters of this Species. By Henry Fairfield Osborn. (Bull. X, pp. 51-61, pll. iv and iv a.)

A Complete Skeleton of *Coryphodon radians*. Notes upon the Locomotion of this Animal. By Henry Fairfield Osborn. (Bull. X, pp. 81-91, pl. x, with 2 text figures.)

The Extinct Camelidæ of North America and Some Associated Forms. By J. L. Wortman, M.D. (Bull. X, pp. 93-142, pl. xi, with 23 text figures.)

Remounted Skeleton of *Phenacodus primævus*. Comparison with *Euprotogonia*. By Henry Fairfield Osborn. (Bull. X, pp. 159-164, pl. xii, with 4 text figures.)

Evolution of the Amphylopa. Part I. Taligrada and Pantodonta. By Henry Fairfield Osborn. (Bull. X, pp. 169-218, with 29 text figures.)

Additional Characters of the Great Herbivorous Dinosaur *Camarasaurus*. By Henry Fairfield Osborn. (Bull. X, pp. 219-233, with 13 text figures.)

The Extinct Rhinoceroses. By Henry Fairfield Osborn. (Mem. I, pp. 75-164, pll. xiii-xx, with 49 text figures.)

#### DEPARTMENT OF ANTHROPOLOGY.

The Huichol Indians of Mexico. By Carl Lumholtz. (Bull. X, pp. 1-14, pll. i and ii, with 1 text figure.)

Marked Human Bones from a Prehistoric Tarasco Indian Burial Place in the State of Michoacan, Mexico. By Carl Lumholtz and Aleš Hrdlička. (Bull. X, pp. 61-79, pll. v-i<sub>h</sub>.)

Facial Paintings of the Indians of Northern British Columbia. By Franz Boas. (Mem. II, pp. 1-24, pll. i-vi.)

The Mythology of the Bella Coola Indians. By Franz Boas. (Mem. II, pp. 25-127, pll. vii-xii.)

#### DEPARTMENT OF ENTOMOLOGY.

Revision of the Species *Euchloë* inhabiting America, north of Mexico. By William Beutenmüller. (Bull. X, pp. 235-248, pll. xiii and xiv.)

Descriptive Catalogue of the Bombycine Moths found within fifty miles of New York City. By William Beutenmüller. (Bull. X, pp. 353-448, pll. xv-xxiii.)

Reference was made in my preceding report to the number of papers, the publication of which was deferred until 1898 for lack of money. Most of these have now been published, for which purpose an additional appropriation was made this year. The list of articles proposed for publication in 1899 will require more than double the amount expended in 1898, and I regret to be compelled to disallow a large proportion of the amount, owing to lack of funds.

EXCHANGE OF DUPLICATE MATERIAL.—The exchange of duplicate material has been stimulated through correspondence with foreign museums. Many of the smaller institutions abroad have been brought into relation with this Museum, and the system of exchanges will be further extended during the coming year.

The exchanges made by the Department of Vertebrate Zoölogy have been mainly with museums in this country; those made by the Departments of Anthropology and Vertebrate Palæontology have been with prominent foreign museums. In each case this Institution has acquired very desirable material.

PHOTOGRAPHY.—The use of photographs in illustrating the collections has increased. In some instances, they show the natural surroundings of the place whence the specimens were



KOSHIMO WOMAN, SHOWING ARTIFICIAL DEFORMATION OF HEAD. JESUP NORTH PACIFIC EXPEDITION.





excavated, and in other cases the objects in position before their removal.

The field parties of the Jesup North Pacific Expedition ; the expeditions to Mexico under Mr. M. H. Saville and Dr. Carl Lumholtz ; and of the Department of Vertebrate Palæontology in the West have all made liberal use of the camera. Some of the negatives are utilized in the preparation of enlarged transparencies, for display in the windows of the exhibition halls.

USE OF COLLECTIONS.—A very noticeable increase is observed in the number of teachers who visit the halls, accompanied by their classes, and the more general use of the collections by students and scientists. The collections of woods and building-stones are utilized by builders, mechanics, and architects for comparison and study to a greater extent than before.

INCOME.—The increase of our Annual Membership is not commensurate with the growth of the city, comprising as it does only 716 members for the current year. It is from this source that the Museum receives a portion of its revenue, and as the income is devoted to the purchase of specimens to enrich the collections, it is hoped that more of our citizens will become members, either by the annual payment of \$10, or by a subscription of \$100 as a Life Member. If each Annual Subscriber would take an interest in securing one additional member, the results would be very gratifying.

As will be seen in the Treasurer's report, the income for the year has been insufficient to meet the current expenses of the Museum.

There is a great need, not only for an increase in the annual appropriation by the city for the cost of maintenance, but the invested fund should also be augmented to provide the means for obtaining new collections and specimens. The Endowment Fund amounts to \$362,000, giving a yearly income of \$18,100.

A large portion of this income is pledged for payment on important collections, which in its early days the Museum had to secure. We need largely increased receipts from this source, and I hope, now that the Museum has been firmly established as one of the great attractions of our city, and one of its most useful institutions for the welfare and education of its people, that this appeal for aid will not pass unheeded.

Our hearty thanks are due to the officials of our city, who have coöperated heartily with the Museum in all that relates to the work of the Trustees.

It is also a pleasure to record, on behalf of my associates and myself, our appreciation of the efficient service rendered during the year by the staff of the Museum.

MORRIS K. JESUP,  
President.



# MAINTENANCE.

## RECEIPTS.

Department of Parks.....	\$ 95,000 02
Cash Deficit.....	11,354 46

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\$106,354 48

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Examined                    { ANSON W. HARD,        } *Auditing*  
                                   and approved, { GEORGE G. HAVEN,    } *Committee.*

Correct.—JOSEPH W. EDWARDS, *Auditor, March 16, 1899.*

## RECAPITULATION.

### CASH ACCOUNT.

Maintenance Account, Cash Deficit.....	\$11,354 46
Endowment        "        "        Surplus.....	7,473 56
Net Cash Deficit.....	\$ 3,880 90
Due for Account of Overdrafts.....	15,000 00
Gross Cash Deficit for the year 1898.....	\$18,880 90

*MAINTENANCE.*

DISBURSEMENTS.

Expressage.....	\$	920 38
Labor.....		38,898 79
Printing.....		51 90
General Expenses.....		2,050 22
Postage.....		297 00
Repairs.....		3,326 97
Coal.....		4,701 81
Labels.....		2,070 68
Stationery.....		706 73
Interest on "Dr." balances.....		125 81
Annual Report.....		575 00
Interest on Special Loan.....		482 40
Supplies.....		4,128 58
Salary.....		46,137 03
Fixtures.....		1,881 18
		<hr/>
		\$106,354 48
		<hr/>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *Dec. 31, 1898.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT.

RECEIPTS.

Cash on hand, Jan. 1, 1898.....		\$ 3,192 06
Freight Rebate.....		102 40
Guides.....		18 00
Life Members:		
Joseph Loth.....	\$ 100 00	
Bernard G. Gunther.....	100 00	
Banyer Clarkson.....	100 00	
Henry H. Cook.....	100 00	
John G. Moore.....	100 00	
James B. M. Grosvenor.....	100 00	
Frederick Billings.....	100 00	
Mrs. Wm. H. Macy, Jr.....	100 00	
Samuel R. Betts.....	100 00	
Francis Lynde Stetson.....	100 00	1,000 00
Morris K. Jesup—Mexican Antiquities.....		200 00
"    "    —Jesup Collection N. A. Forestry.....		3,306 30
Admission Fees.....		1,036 00
Annual Members.....		6,950 00
Patrons:		
H. O. Havemeyer.....	\$1,000 00	
A. D. Juilliard.....	1,000 00	2,000 00
Henry F. Osborn—Department of Vertebrate Palæontology.....		2,126 89
Collecting Permits.....		30 00
State Superintendent of Public Instruction.....		12,000 00
Special Loan:		
James M. Constable.....	\$9,000 00	
Morris K. Jesup.....	9,000 00	18,000 00
Special Loan, Acc't of Overdrafts.....		15,000 00
B. T. B. & F. E. Hyde, Jr.—Hyde Expedition.....		1,050 00
Mexican Expedition refund.....		348 73
Interest on Invested Funds.....		18,100 00
Morris K. Jesup—Jesup North Pacific Expedition.....		11,241 09
Frederick E. Hyde—Department of Anthropology.....		900 00
R. P. Lounsbery—Department of Vertebrate Palæontology.....		50 00
Jacob H. Schiff—Department of Anthropology.....		500 00
Matilda W. Bruce—Minerals.....		250 00
James M. Constable—Constable Expedition Northwest Territory..		1,200 00
		<u>\$98,601 47</u>

Examined { ANSON W. HARD, } *Auditing*  
and approved, { GEORGE G. HAVEN, } *Committee.*

Correct.—JOSEPH W. EDWARDS, *Auditor, March 16, 1899.*

## ENDOWMENT.

### DISBURSEMENTS.

Minerals .....	\$ 320 00
Ornithology .....	108 21
Labels .....	150 40
Bulletins .....	6,094 69
Terry Collection.....	18,000 00
Emmons' Second Alaskan Collection .....	5,550 20
Mammals .....	464 07
Library .....	771 48
Mammal Groups.....	321 70
Appleton Sturgis—Pacific Islands Collection.....	3,749 38
Skeletons.....	377 71
Bird Groups.....	122 74
Geology.....	58 24
Postage.....	125 06
Traveling Expenses.....	56 96
Conchology.....	25 00
Peruvian Expedition.....	4,032 50
Annual Report.....	585 39
Stationery .....	209 70
Edwards' Entomological Collection.....	600 00
Entomology.....	204 91
Spang Collection.....	1,150 00
Haines Collection.....	1,000 00
General Expenses.....	521 55
Economic Collection.....	3,194 30
Invertebrate Zoölogy.....	144 08
Mexican Expedition.....	3,121 58
Printing.....	194 35
Anthropology.....	7,727 77
Morris K. Jesup—Jesup North Pacific Expedition <sup>1</sup> .....	11,241 09
Ethnic Groups.....	1,184 67
Lumholtz-Hrdlicka Expedition.....	4,201 33
Vertebrate Palæontology.....	4,696 55
Department of Public Instruction.....	9,622 30
James M. Constable—Constable Expedition Northwest Territory..	1,200 00
Cash on hand, December 31, 1898.....	7,473 56
	<u>\$98,601 47</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, Dec. 31, 1898.

<sup>1</sup> Contributions from Morris K. Jesup for the North Pacific Expedition:

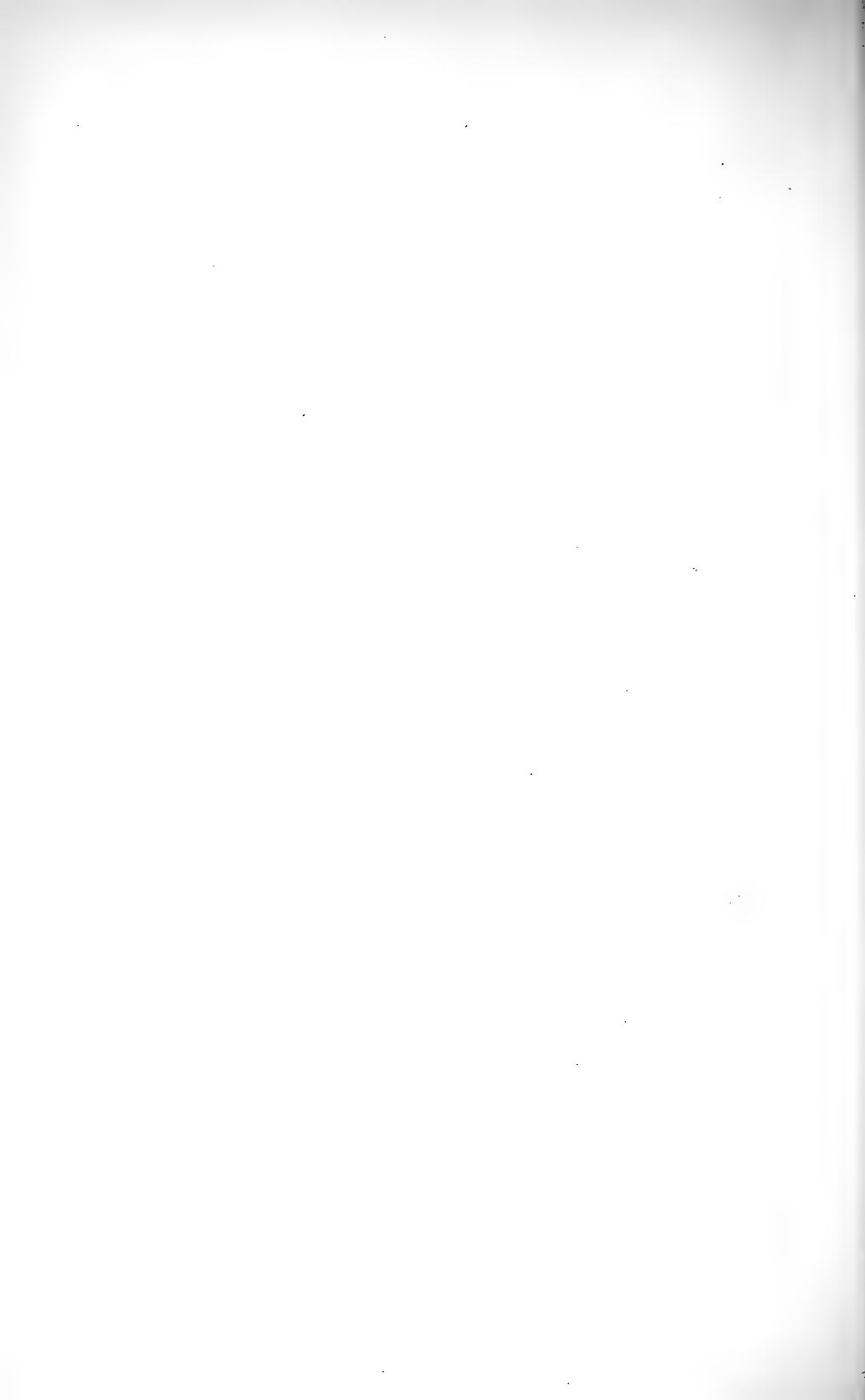
1897.....	\$ 4,997 92
1898.....	11,241 09
	<u>\$16,239 01</u>







CARVED A SCULPTURE IN STONE, RUINS OF GUERRA, GUATEMALA. GIFT OF THE DUKE OF LORRAINE.



# LIST OF ACCESSIONS, 1898.

## LIBRARY.

### DONATIONS.

	Volumes	Parts and Numbers	Pamph- lets
Albert I <sup>er</sup> , Prince Souverain de Monaco.....		1	
Prof. J. A. Allen, New York City.....			132
James Angus, New York City.....	4	15	
S. P. Avery, New York City.....	3	9	
E. J. Bacon, London, England .....			1
O. Bangs, Boston, Mass.....			17
Miss E. Benjamin, New York City.....		62	
Chas. E. Bessey, Salem, Mass.....			1
William Beutenmüller, New York City.....			27
H. Bolton, Manchester, England.....	1		
George H. Brown, New York City.....	25		
Lawrence Bruner, Lincoln, Nebraska.....	1		
F. J. R. Carulla, Derby, England.....			5
T. C. Chamberlin, Indiana.....			1
Rev. W. Colenso, Napier, N. Z.....	1		
O. Davie & Company, Columbus, Ohio.....	1		
S. D. Dill, New York City.....			6
Daniel Draper, New York City.....	1		
C. Eickenmeyer, New York City.....			1
D. G. Elliot, Chicago, Ill.....			1
R. S. Tarr, Ithaca, N. Y.....			1
Albert Federico, Santiago de Chile.....		2	
B. E. Fernow, Washington, D. C.....			1
Hon. R. P. Flower, New York City.....	5		
Dr. Wilhelm Fresenius, Wiesbaden, Germany.....			19
A. S. Gatschet, Washington, D. C.....			2
F. S. Palmer, Berkeley, Cal.....			1
Louis Pelatan, N. P.....			1
George H. Pepper, New York City.....	28		
Mrs. M. Petersen, New York City.....	20		
Hon. Lemuel E. Quigg, New York City.....	16		
John Rowley, New York City.....	1		
W. R. Shaw, Stanford, Cal.....			1
Harlan I. Smith, New York City.....			2

	Volumes	Parts and Numbers	Pamphlets
Miss Harriet L. Sniffin, New York City.....	14	16	20
Sir William Turner, Edinburgh, Scotland.....			20
J. G. y Villa, Milano, Italy.....	1		
Joseph Wiener, M.D., New York City.....	9		5
J. H. Winsor, New York City.....		43	
Miss Lucy S. Woodward, New York City.....		16	
William A. Woodward, New York City.....	1	7	35
Southern University, Greensboro, Alabama.....	1		
Pasadena Academy of Sciences, Cal.....		3	
Central Experiment Farm, Ottawa, Canada.....		4	
Department of Marine and Fisheries, Ottawa, Canada.....	2		
Government Printing Bureau, Ottawa, Canada.....	18	21	3
Ontario Agricultural College and Experiment Farm, Toronto..	2	4	
“ Department of Agriculture, Toronto.....	18	1	1
Department of Agriculture and Immigration, Winnipeg.....		1	
Colorado State Agricultural College, Fort Collins.....	1	2	
Yale University, New Haven, Conn.....		1	
Florida Agricultural Experiment Station, Jacksonville.....		7	
Hon. Charles Lewis Guy, New York City.....	224	252	
Dr. A. Hrdlička, New York City.....			1
Arthur C. James, N. Y.....			3
Chas. Janet, Beauvais, France.....			4
Morris K. Jesup, New York City.....	31	37	
Dr. F. Kamieniecki, Russia.....			1
Wilbur C. Knight, Laramie, Wyoming.....			1
George F. Kunz, New York City.....			2
Miss Harriet L. Lagowitz, New York City.....	4		
C. G. Lloyd, Cincinnati, Ohio.....			2
Duke of Loubat, New York City.....	69	54	
“ “ “ Albums of Photographs.....	12		
“ “ “ Photographs.....		61	
“ In Memory of Jules Marcou,” the gift of his heirs, Dr. Philippe and John B. Marcou.....	3000	5000	5000
Also a large and valuable Collection of Maps.....			1200
H. C. Mercer, Philadelphia, Pa.....	1		3
M. L. Miller, Chicago, Ill.....			1
W. Miller, Grand Rapids, Mich.....			1
C. B. Moore, Philadelphia, Pa.....	1		
Hon. Levi P. Morton, New York City.....	7		
Mandeville Mower, New York City.....			4
Munn & Co., New York City.....	1	25	
M. de Nadaillac, Paris, France.....			1
Felix F. Outres, S. A.....	1		1
Sante Fé Route, Chicago, Ill.....	5		
Illinois Board of World's Fair Commissioners, Springfield....	1		
“ Horticultural Board of Control, Savoy.....	1		
Rose Polytechnic Institute, Terre Haute, Indiana.....			1
Board of State Charities of Indiana, Indianapolis.....	1	36	
Iowa Board of Railroad Commissioners, Des Moines.....	1		2
“ State University, Iowa City.....		2	
Kansas Academy of Science, Topeka.....	1		
Kentucky Agricultural Experiment Station, Frankfort.....		9	

	Volumes	Parts and Numbers	Pamph- lets
Maryland Agricultural College, College Park.....		2	
“ “ Experiment Station, College Park.....	I	5	
Massachusetts Horticultural Society, Boston.....	I		
Harvard Astrophysical Conference.....		1	
The Newberry Library, Springfield, Mass.....		2	
Wellesley College, Wellesley, Mass.....	2		
Worcester Polytechnic Institute, Mass.....			2
Mexican Expedition. Am. Mus. Nat. Hist.....	50	14	42
Michigan Ornithological Club, Grand Rapids.....		4	
“ Bureau of Labor and Industrial Statistics, Lansing..	I		
“ State Treasurer, Lansing.....	I		
University of Minnesota State Agricultural Experiment Station, Minneapolis.....		3	
Mississippi Agricultural and Mechanical College, Jackson....	I		I
Helena Public Library, Montana.....		2	
Montana Bureau of Agriculture, Labor, and Industry, Helena..		1	
Nevada State University, Reno.....		3	
New Jersey Agricultural College Experiment Station, New Brunswick.....		10	
New Jersey Bureau of Statistics, Labor, and Industries .....	I		
“ “ State Microscopical Society, New Brunswick.....	I		
Vineland Historical and Antiquarian Society, N. J.....		1	
Bureau of Statistics and Labor, State of New York, Albany..	2	10	
The Agricultural Society, New York, Albany.....	I		
Grosvenor Free Public Library, Buffalo.....		8	
New York Agricultural Experiment Station, Geneva.....		129	
Western New York Horticultural Society, Rochester .....	I		
Lake Mohawk Conference on International Arbitration, N. Y..	I		
American Society for Prevention of Cruelty to Animals, New York City.....	I	10	
Harlem Library, New York City.....	I		
Merchants' Association, New York City.....		I	
Monumental Records Association, New York City.....		3	
National Academy of Design, New York City .....			2
New York Entomological Society, New York City.....			I
“ “ Post-Graduate Medical School, New York City....	I	2	
“ “ Scientific Alliance, New York City.....	I		I
Roosevelt Hospital, New York City.....	I		
Scoville and Adams Co., of New York City.....		4	
Teachers College, New York City.....			I
The Auk, New York City.....	I	I	
The Osprey Company, New York City.....		5	
Biltmore Herbarium, N. C.....			I
Cincinnati Museum Association, Ohio .....		I	I
Lloyd Mycological Museum, Cincinnati, Ohio.....	I		
University of Cincinnati, Ohio.....	I		
Hamilton College, Clinton, Ohio.....		2	
Agricultural Experiment Station, Columbus, Ohio.....		II	
Miami University, Oxford, Ohio.....	I		
Fairmount Park Art Association, Philadelphia, Pa.....	I		
Girard College, Philadelphia, Pa.....	I		
Rhode Island State Board of Agriculture, Providence.....		I	

	Volumes	Parts and Numbers	Pamphlets
University of Tennessee, Nashville.....		I	
Virginia Agricultural and Mechanical College, Blacksburg.....		4	
University of Virginia, Charlottesville.....	I		
Hampton Normal and Agricultural Institute, West Virginia...		9	
Middlebury College, Vt.....	I		
Mountain Club, Cape Town, Africa.....		I	
Royal Asiatic Society, Shanghai, China, Asia.....		I	
Deutsche Gesellschaft für Natur- und Völkerkunde Ostasiens, Tokio, Asia.....	I		
Tōkyō Geographical Society, Tōkyō, Japan, Asia.....		5	
Japan Weekly Gazette.....		9	
Government Geologist, Adelaide, Australia.....	I		
Woods and Forests Department, Adelaide, Australia.....		2	
Queensland Museum, Brisbane, Australia.....		2	
Government Statistician and Registrar-General, Hobart, Aus- tralia.....	I		
Minister of Mines, Tasmania, Australia.....		4	
Victoria Field Naturalists' Club, Australia.....		I	
New Zealand Institute, Wellington, Australia.....	I		
R. Società Agraria di Gorizia, Austria-Hungary.....		12	I
Société de Médecine Scientifique et d'Hygiène, Karkow, Austria-Hungary.....	I		
Museum Francisco Carolinum in Linz, Austria-Hungary.....	I		
Académie di Scienze Fisiche e Matematiche, Roveredo, Austria- Hungary.....		3	
Wiener Thierschutz-Verein, Wien (Vienna), Austria-Hungary..		8	
L'Académie Royale de Belgique, Bruxelles, Belgium.....			I
L'École Provinciale d'Ind. et d. Miner. d. Hainaut, Liège, Belgium.....	I		
Monthly Arabic Journal of Science, Literature, and Art, Cairo, Egypt.....	I		
Athenæum, London, England.....	I		
Birmingham and Midland Institute, England.....			I
Leeds Philosophical and Literary Society, England.....	I		
L'Intermédiaire des Biologistes, Paris, France.....		2	
Société des Sciences Médicales de Gannat, Commeny, France..		2	
Société d'Horticulture et Viticulture de la Côte d'Or, Dijon, France.....		2	
Société d'Horticulture de Fontenay Le Comte, France.....		4	
Königliche Friedrich-Wilhelms-Universität, Berlin, Germany..	I		
Zoological Collection zu Berlin, Germany.....			I
Zoologische Sammlung zu Berlin, Germany.....	I	I	I
Niederrheinische Gesellschaft für Natur- und Heilkunde, Bonn, Germany.....		12	
Westpreussische Fischerei-Verein, Danzig, Germany.....		7	
Naturwissenschaftliche Gesellschaft "Isis" in Dresden, Ger- many.....	I		
Hamburgische Wissenschaft Anstalte, Hamburg, Germany....		3	
Verein für Heil- und Naturkunde zu Pozsony, Plauen, Germany..		I	
Cawnpore Experimental Farm, Allahabad, India.....		I	
Agricultural and Horticultural Society of India, Calcutta, India..	I		
Botanical Survey of India, Calcutta.....		3	

	Volumes	Parts and Numbers	Pamphlets
Government of India, Calcutta, India.....	1	97	3
Agricultural Statistics of Ireland, Dublin.....	1		
R. Academia di Scienze, Fisiche, Matematici (di Napoli), Italy.		3	
Direccion General de Estadistica, Mexico.....	4		
Instruccion Pública Mexicana.....		17	
Direktøren for det Civile Veterinærvæsen, Kristiania, Norway..	1		
Bernice Pauahi Bishop Museum, Honolulu, Sandwich Islands..		1	
Hawaiian Minister of the Interior, " " " "		9	
Edinburgh University, Scotland.....	1		
Sociedad Científica Argentina, Buenos Aires, South America...	1	6	
Instituto Agronomico d. Estado d. São Paulo, Brazil, South America.....		1	
Direccion de Estadistica General, Montevideo, Uruguay, South America.....	2	1	
Agricultural Society, Barbadoes, W. I.....		1	
Dodd's Experimental Field Reformatory, Barbadoes, W. I....	1		
Real Academia de Ciencias Médicas, Físicas, y Nat. d. I. Habana, W. I.....		4	

MRS. WM. MOORE CARSON, New York City.

An oil painting by John Woodhouse Audubon,—a deer hunt entitled 'The Last Resort.'

# EXCHANGES.

	Volumes	Parts and Numbers	Pamphlets
Africa. Académie d'Hippone-Société de Recherche Scientifique et d'Acclimatation, Bone.....		1	1
Colonial Secretary's Office, Cape Town .....	1		
South African Museum, Cape Town.....		2	
Institut Egyptien, Le Cairo, Egypt.....		5	
California. University of California, Berkeley.....	1	1	
Library, Leland Stanford Jr. University, Palo Alto.....	2	3	3
Academy of Sciences, San Francisco.....		13	
Colorado. Scientific Society, Denver.....	1	4	3
University of Denver.....	1		
Connecticut. State Board of Agriculture, Hartford.....	1		
C. E. Beecher, New Haven.....			1
Georgia. Geological Survey, Atlanta.....	3		
Illinois. Field Columbian Museum, Chicago.....		4	
J. P. Iddings, Chicago .....			1
University of Chicago.....		1	
State Board of Agriculture, Springfield.....	1	8	
" Laboratory of Natural History, Urbana.....		3	
Indiana. Academy of Science, Indianapolis.....	4		
Geological Survey, Indianapolis.....	1		
Iowa. Academy of Sciences, Des Moines.....	1		
Geological Survey, Des Moines.....	1		
Historical Society of Iowa, Des Moines.....	1	2	
Historical Department of Iowa, Iowa City.....	3		
State Historical Society, Iowa City.....		3	
Kansas. University, Lawrence.....	9	8	
State Agricultural College, Manhattan.....	1	16	
Kentucky. Polytechnic Society, Louisville.....	1		
Louisiana. State Experimental Agricultural Station, Baton Rouge .....		1	
State University and A. and M. College, Baton Rouge....		1	1
Tulane University, New Orleans.....	2		1
Maryland. Geological Survey, Baltimore.....	1		
Johns Hopkins University, " .....		4	
P. R. Uhler, Baltimore .....			1
Massachusetts. Agricultural College, Amherst.....		4	
American Academy of Arts and Sciences, Boston.....		19	
Appalachian Mountain Club, Boston.....	1	1	
Boston Public Library.....		13	
" Society of Natural History.....		10	
State Board of Agriculture, Boston .....	1		
" Library, Boston.....	7	3	2
Walter Faxon, Cambridge.....			3
Harvard College, Astronomical Observatory, Cambridge..		3	
Museum of Comparative Zoölogy, Cambridge.....		9	



	Volumes	Parts and Numbers	Pamphlets
Massachusetts— <i>Continued.</i>			
Peabody Museum of American Archaeology and Ethnology, Cambridge.....	3	3	1
Bussey Institution, Jamaica Plain.....		1	
Tufts College, Medford.....		1	
Essex Institute, Salem.....	1	6	
E. S. Morse, Salem.....			2
City Library Association, Springfield.....		8	
Worcester Society of Antiquity.....		1	1
Michigan. State Agricultural College Experiment Station, Agricultural College.....		15	
State Board of Agriculture, Agricultural College.....	1		
Minnesota. Historical Society, St. Paul.....		1	
Missouri. University of the State, Columbia.....	1		
State Horticultural Society, Jefferson City.....	1		
St. Louis Academy of Science.....		7	
Missouri Botanical Garden, St. Louis.....	1		
Public Library, St. Louis.....		17	
Nebraska. University, Lincoln.....	1		
New Jersey. Geological Survey, Trenton.....	2		1
New York. John M. Clarke, Albany.....			3
C. H. Peck, Albany.....	1		
State Geological Survey, Albany.....	1		
" Museum, Albany.....	1		
University of State, Albany.....	7	10	
F. H. Lattin, Albion.....	1	1	
Museum Publishing Company, Albion.....		11	
Buffalo Society of Natural History, Buffalo.....		2	
Cornell University, Ithaca.....	1	15	
Geological Society of America, Rochester.....	1		
Onondaga Historical Association, Syracuse.....		3	
L. I. Historical Society, Brooklyn.....			3
Natural Science Association, New Brighton, Staten Island..		9	
American Chemical Society, New York City.....	1		
" Geographical Society, New York City.....	1	1	
" Institute of Mining Engineers, New York City..	4		67
" Numismatic and Archæological Society, New York City.....		1	
Archæological Institute of America, New York City.....		8	
Columbia University, New York City.....	5		
Lemcke and Buechner, New York City.....	7		
Mercantile Library, New York City.....	1	1	
Metropolitan Museum of Art, New York City.....		1	
New York Academy of Medicine, New York City.....			1
" " " Sciences, " " ".....	2	2	
" " Botanical Garden, New York City.....		1	
" " Microscopical Society, New York City.....		1	
" " Public Library, New York City.....	1		
" " Zoological Society, New York City.....		1	
Torrey Botanical Club, New York City.....	1		
North Carolina. Agricultural Experiment Station, Raleigh...		14	
H. H. and C. S. Brimley, Raleigh.....		28	

	Volumes	Parts and Numbers	Pamph- lets
North Carolina— <i>Continued.</i>			
N. C. Geological Survey, Raleigh .....		10	
E. Mitchell Scientific Society, Raleigh .....		2	
Ohio. E. W. Claypole, Akron .....			I
Cincinnati Society of Natural History .....		I	
Denison University, Granville .....	I	4	
Oberlin College .....		2	
Pennsylvania. Department of Agriculture, Harrisburg .....		10	
Dr. G. Brinton, Philadelphia .....			14
Benjamin S. Lyman, Philadelphia .....			3
Academy of Natural Sciences, Philadelphia .....	I	I	
American Philosophical Society, " .....		2	
Geographical Club of Philadelphia, " .....		I	I
Numismatic and Antiquarian Society, Philadelphia .....		I	
University of Pennsylvania, Philadelphia .....	I		3
Wagner Free Institute of Science, Philadelphia .....		I	
Zoological Society of Philadelphia, " .....		I	
Wyoming Historical and Geological Society, Wilkesbarre ..		I	
University of Wyoming, Laramie .....		4	
Rhode Island. A. S. Packard, Providence .....			I
Redwood Library and Athenæum, Newport .....		I	
Texas. Academy of Science, Austin .....		I	
Vermont. Fletcher Free Library, Burlington .....			I
University of Vermont and State Agricultural College, Burlington .....	I	4	
Middlebury College .....			I
State Agricultural Experiment Station, Montpelier .....		3	
State Geologist, Rutland .....	I		
Washington, D. C. Department of Agriculture .....	I	115	142
Department of the Interior .....	12	10	I
" " State .....		12	
Smithsonian Institution .....	10	2	I
Superintendent of Documents .....		11	
Treasury Department .....	5		
U. S. Civil Service Commissioner .....	I		
War Department .....	I		
Wisconsin. State Historical Society, Madison .....	5		
Academy of Sciences, Arts, and Letters, Madison .....	I		
Public Museum, Milwaukee .....	I		
Canada. Le Naturaliste Canadien, Chicoutimi .....	I		
Fruit Growers' Association, Grimsby .....	I		
Nova Scotian Institute of Natural Science, Halifax .....		I	
Entomological Society of Ontario, London .....	I		
Natural History Society of Montreal .....		3	
Numismatic and Antiquarian Society of Montreal .....		2	
Geological and Natural History Survey of Canada, Ottawa ..	I	I	
Ottawa Field Naturalists' Club .....	I	I	
Royal Society of Canada, Ottawa .....	I		
New Brunswick Natural History Society, St. John .....	I		
Canadian Institute, Toronto .....		14	
Manitoba Historical and Scientific Society, Winnipeg .....		3	
Costa Rica. Museo Nacional, San José .....	I		



EXPLORATION OF PREHISTORIC RUINS, "PUEBLO BONITO." HYDE EXPEDITION, 1895-98.



	Volumes	Parts and Numbers	Pamphlets
Mexico. Biblioteca de la Secretario de Fomento, Mexico.....	1	21	
Sociedad Cientifica "Antonio Alzate," Mexico.....		3	
" Mexicana d'Histoire Natural, " .....		3	
West Indies. Antigua Branch Leeward Islands Agricultural Society.....	1		
Institute of Jamaica, Kingston .....	1	9	
F. L. Guppy, Trinidad, Port-of-Spain .....			1
Agricultural Society, Trinidad, Port-of-Spain .....		3	
South America. Museo Nacional de Buenos-Aires.....	2	4	24
Bibliotheca Nacional, Rio de Janeiro, Brazil.....	16		10
Direccion General de Estadistica, La Plata, Brazil.....	2	3	
Museo de la Plata, Brazil.....	1	1	
Société Scientifique du Chili, Santiago.....		6	
Museo Nacional de Montevideo, Uruguay.....		2	
Museu Paulista, S. Paulo.....	2		
Asia. Royal Asiatic Society (Bombay Branch).....		1	
Asiatic Society of Bengal, Calcutta, India.....	1	14	
Indian Museum, Calcutta, India.....	2		
Madras Government Museum, India.....		1	
Imperial University, Tokio, Japan.....		1	
Koninklijke Natuurkundige Vereenig. in Ned-India, Batavia, Java .....	2		
Australasia. Australian Museum, Sydney.....	1	5	
Department of Mines and Agriculture, Sydney.....	1	1	2
Geological Survey, New South Wales, Sydney.....		1	
Government Statistician's Office, Sydney.....	5		
Linnean Society of New South Wales, Sydney.....		5	
Royal Society of New South Wales, Sydney.....	1	2	
New Zealand Department of Agriculture, Wellington....	1	14	
A. G. Maitland, Brisbane, Queensland.....	1		
Robt. L. Jack, " .....			2
Geological Survey, " .....	1	1	
Royal Society, " .....	1		
" " of Tasmania, Hobarton.....		6	1
" " " Victoria, Melbourne .....		2	
" Geographical Society, " .....	1	6	
Field Naturalists' Club, Victoria.....		5	
Geological Survey Western Australia, Perth.....	1	2	
Austria-Hungary. Südslavische Akademie der Wiss. und Künste, Agram.....	3		
Der Ausschuss des Museums Ver. f. Vorarlberg, Bregenz..	1		
K. Magyarhoni Földtani Tarsulat, Budapest.....		11	
Magyar Nemzeti Museum, Budapest.....	1		
Société Royal Hongroise d. Sciences Naturelles, Budapest..	5	3	
Historischer Verein für Steiermark, Gratz.....		1	
Siebenbürgischer Verein f. Naturwissenschaft, Hermanstadt.	1		
Verein f. Siebenbürgische Landeskunde, Hermanstadt.....		3	
Ungar. Karpathen-Verein, Iglo .....	1		
Società Adriatica di Scienze Naturali, Trieste, Illyria ....	3		
L'Académie des Sciences de Cracovie, Poland.....	1	11	
K. Böhm. Gesellschaft d. Wissenschaften, Prag.....	6		
Verein f. Geschichte d. Deutschen in Böhmen, Prag.....		4	

	Volumes	Parts and Numbers	Pamphlets
<i>Austria-Hungary—Continued.</i>			
K. K. Ackerbau-Ministerium, Vienna.....	1		
K. K. Gradmessungs-Bureau, ".....		1	
K. K. Gartenbau-Gesellschaft, ".....		12	
Section f. Naturkunde d. Öster. Tourist-Club, Vienna....	1		
Verein zur Verbreitung naturwissenschaft. Kenntnisse, Vienna.....	1		
Kaiserliche Akademie der Wissenschaften, Vienna.....	2	5	
K. K. Geologische Reichsanstalt, Vienna.....		18	
K. K. Naturhistorisches Hof-Museum, Vienna.....	1		
K. K. Zoologisch-Botanische Gesellschaft, Vienna.....	1		
Naturwiss. Ver. d. Trencsiner Comitatus, Trencsin.....	2		
Belgium. Ch. F. Dubois, Brussels.....	4		
Société Royale de Botanique d. Belgique, Brussels.....	1		
"    "    Linn. d. Bruxelles.....		4	
"    "    Malacologique d. Belgique, Brussels.....	4	7	
"    Geologique de Belgique, Liège.....		4	
"    Royale des Sciences, Liège.....	1		
"    Scientifique de Bruxelles, Louvain.....	1		
Denmark. Kongelige Danske Videnskabernes Selskab, Copenhagen.....		6	
France. Société d'Emulation, Abbeville.....	3	1	
Société des Études, Lit. Scientif. et Artist. d. Lot, Cahors.....		1	
"    Nationale d. Sciences Nat. d. Cherbourg.....	1		
Union Géographique du Nord d. l. France, Douai.....		1	
Société Libre d'Ag. Science, Artes et Belles Lettres d. l'Eure, Evreux.....	1		
Société d'Horticulture de Fontenay Le-Comte.....		2	
L'Université, Laval.....	2		1
Museum d'Histoire Naturelle de Lyon.....	28		2
Faculté des Sciences de Marseilles.....		4	
Société des Sciences de L'Ouest de la France, Nantes.....		5	
D. P. Ehlert, Paris.....			1
Feuille des Jeunes Naturalistes, Paris.....		14	
Min. d. l'Instruction Pub. d. B. A. et d. Cultes, Paris.....	1	1	
Ministère des Travaux Publics, Paris.....		9	
Bibliothèque de Museum d'Histoire Naturelle, Paris.....		6	
Société de Géographie, Paris.....	1		
"    Entomologique de France, Paris.....	2		
"    Géologique de France, Paris.....		25	
"    Scientifique et Station Zoologique d'Arcachon, Paris.....	1		
Société Zoologique de France, Paris.....	1		
Académie des Sciences, Ins. et Belles Lettres, Toulouse....	1		
Germany. Dr. Hermann Fürst, Berlin.....	1		
R. Friedländer und Sohn, Berlin.....		24	
Ges. Anthropologie, Ethnologie u. Urgeschichte, Berlin....		5	
Gesellschaft für Erdkunde, Berlin.....		11	
Deutsche Geologische Gesellschaft, Berlin.....		4	1
Naturhistorischer Ver. d. preussischen Rheinlande, Bonn....	10	2	
Naturwissenschaftlicher Verein, Bremen.....		2	
Verein f. Schlesische Insektenkunde, Breslau.....	1		

	Volumes	Parts and Numbers	Pamphlets
<i>Germany—Continued.</i>			
Verein f. Naturkunde zu Cassel .....	1		
Naturforschende Gesellschaft in Emden.....	2		
Naturwissenschaftlicher Verein d. Reg.-Bez., Frankfurt...	1	9	
Senckenbergische Naturforschende Gesellschaft, " ...	2	5	
Naturforschende Gesellschaft, Freiburg.....		3	
Société Fribourgeoise d. Sciences Naturelles, Freiburg...		2	
Naturforschende Gesellschaft, Görlitz.....	1		
Oberlausitzer Gesellschaft d. Wissenschaften, Görlitz.....		3	
K. Leop.-Car. Deutsche Akademie d. Naturforscher, Halle..		3	
Naturwissenschaftlicher Verein, Hamburg.....	1		
Zoologischer Garten, Hamburg .....	1		
Bibliothek des Polytechnicums, Karlsruhe.....			6
Königliche Physikalisch-Oekonomische Gesellschaft, Königsberg.....	1		
Königlich-Sächsische Gesellschaft d. Wissenschaften, Leipzig.....	6		5
K. Min.-Geol. u. Prähist. Museum in Dresden.....		1	
Verein für Erdkunde, Leipzig.....	18	2	
Naturwissenschaftlicher Verein, Lüneburg.....	1		
" " Magdeburg.....	1		
Gesellschaft zur Beförderung d. Gesammten Naturw., Marburg .....	1		
Königlich-Baierische Akademie d. Wissenschaften, München.....	1	4	
Westfälischer Provinzial-Verein f. Wiss. u. Kunst, Münster.....	1		
Naturhistorische Gesellschaft, Nürnberg. ....	1		
Naturwissenschaftlicher Verein, Osnabrück.....	1		
Schweizer Entomologische Gesellschaft, Schaffhausen.....		3	
Württembergischer Verein für Handelsgeographie, Stuttgart.....	2		
Nassauischer Verein für Naturkunde, Wiesbaden.....	1		
Königliche Universitäts Bibliothek, Würzburg.....			13
Schweizerische Gesellschaft f. d. gesammte Naturwiss., Zurich .....	1		
<i>England.</i>			
Naturalists' Society, Bristol.....		1	1
Philosophical Society, Cambridge.....	3		
Naturalists' Society, Cardiff.....	1		
Natural History Society, Hertfordshire.....		2	
Yorkshire Geological and Polytechnic Society, Leeds.....		1	
Literary and Philosophical Society, Liverpool.....		1	
Naturalists' Field Club, Liverpool.....	1		
Board of Agriculture, London.....		16	
British Museum (Natural History), London.....	2		2
Geologists' Association, London.....		3	1
Geological Society of London.....		7	1
Linnean " " .....		3	
Royal Colonial Institute, London.....		8	
Royal Society, London.....		20	
Wesley and Son, London.....	22		
Zoological Society, London.....		6	1

	Volumes	Parts and Numbers	Pamphlets
England— <i>Continued.</i>			
Field Nat. and Archæologists' Society, Manchester.....	I		
Geological Society, Manchester.....		16	
Geographical Society, Manchester.....		6	
Museum, Owens College, Manchester.....	I	6	
Literary and Philosophical, ".....	I		
Marine Biological Association, United Kingdom, Plymouth.	3	6	
Zoölogical Museum, Tring.....		4	
Ireland. Flax Supply Association, Belfast.....		2	3
Naturalists' Field Club, Belfast.....		1	
Scotland. W. E. Clarke, Edinburgh.....		4	
Royal Society, Edinburgh.....	I		
Natural History Society, Glasgow.....		I	
Philosophical Society, Glasgow.....	I		
Perthshire Society of Natural Science, Perth.....		I	
Italy. R. Istituto Lombardo di Scienze e Lettere, Milano....	I	2	
R. Accademia di Science Lettere ed Arti in Rovoreto, Modena.....		I	
R. Istituto Botanico di Palermo.....		5	
Società dei Naturalisti Siciliani, Palermo.....		4	
R. Accademia dei Lincei, Roma.....		26	I
Ministero d'Agricoltura, Industria e Commercio, Roma....		I	
Musei di Zoölogia ed Anatomia, Torino.....		15	
R. Università, Torino.....	3		32
Netherlands. Koninklijke Akademie van Wetenschappen, Amsterdam.....	I	2	
Société Hollandaise des Sciences, Harlem.....		3	
Nederlandsche Dierkund. Vereeniging, Leiden.....	13	I	2
Rijks Universiteit, Leiden.....			2
Zealand Society of Sciences, Middelburg.....			3
Norway. Departementet for det Indre, Christiania.....	I	3	2
Videnskabernes Selskab, Christiania.....	2		
Museum, Stavanger.....		I	
Russia. Naturforschende Gesellschaft bei der Universität, Derpt.....	I		
Société des Sciences de Finlande, Helsingfors.....	3		
" " Naturalistes, Kiew.....		I	
" " Impériale des Naturalistes, Moscow.....		4	
" " des Naturalistes de la Nouvelle-Russie, Odessa....		I	
Comité Géologique de la Russie, St. Petersbourg.....	I	9	
Horæ Societatis Entomologicæ, " ".....	5	2	
Imperial Russian Society of Fishery and Fish, St. Petersbourg.....	2		4
L'Académie Impériale des Sciences, St. Petersbourg.....	2	22	
Russische - Kaiserliche Mineralogische Gesellschaft, St. Petersburg,.....	I	3	I
Spain. R. Academia de Ciencias y Artes, Barcelona.....		I	
Sweden. Bureau of Geological Survey, Stockholm.....		12	
Kong. Vetenskaps och Vitterhets-Samhället, Gothenbourg.		I	
Kongl. Vitterhets Histoire och Antiquitets Akademien, Stockholm.....	17		2
Royal Swedish Academy of Sciences, Stockholm.....		15	



	Volumes	Parts and Numbers	Pamph- lets
<i>Sweden—Continued.</i>			
Lunds Universitatis Lundensis, Lund.....	I		
Société Entomologique, Stockholm.....		5	
Kongliga Universitetet Bibliotheket, Upsala.....		2	
Switzerland. Naturforschende Gesellschaft, Basel.....	I	I	
Naturforschende Gesellschaft, Bern.....	5		
“ “ Graubündens, Chur.....	I		I
Thurgauische Naturforschende Gesellschaft, Frauenfeld..		1	
Société Vaudoise des Sciences Naturelles, Lausanne.....		2	
Société Neuchateloise de Géographie, Neuchatel.....	5		
St. Gallische Naturwissenschaftliche Gesellschaft, St. Gall..	I		

## PURCHASES.

- American Anthropologist. 1898.  
 American Entomological Society. Transactions. 1895.  
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 American Journal of Science and Arts. 1898.  
 American Naturalist. 1898.  
 Annals and Magazine of Natural History. 1898.  
 Anthropological Institute of Great Britain and Ireland. Journal. 1898.  
 Anthropologische Gesellschaft in Wien. Mittheilungen. 1898.  
 Biologia Centrali Americana. Nos. 138-144. 1898.  
 Book on Antelopes. Parts. 1898.  
 British Museum Catalogue of Birds, vol. xxvi.  
 Cabanis, Journal für Ornithologie. 1898.  
 Dictionary of the Bohemian and English Languages. 4th Ed. 1890.  
 Dictionary, English and Chinese. 1895.  
 Dictionary, Handy Poetical Anglo-Saxon. 1885.  
 Dictionnaire Etymologique. 1886.  
 Dictionnaire des Synonymes de la Langue Française.  
 Forest and Stream. 1898.  
 Ibis (The). 1898.  
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 Journal de Conchyliologie. 1897, 1898.  
 Library Journal. 1898.  
 Martini und Chemnitz. Syst. Conchylien-Cabinet. Nos. 433-438. 1898.  
 Nature. 1898.  
 Neues Jahrbuch für Mineralogie, Geologie und Palæontologie. 1898.  
 New York Charities Directory. 7th and 8th Edition. 1896.  
 New York Herald. 1898.  
 New York Times. 1898.  
 Palæontographica. 1898.  
 Publishers' Weekly. 1898.  
 Quarterly Review. 69 Vols.  
 Revue Mensuelle de l'École d'Anthropologie de Paris. 1898.  
 Rossmässlers' Iconographie. 1898.  
 Science. 1898.  
 Société d'Anthropologie de Paris. Bulletin. 1898.  
 Tryon's Manual, American Marine Conchology. 1898.  
 Zoologischer Anzeiger. 1898.  
 Zoölogist (The). 1898.

## DEPARTMENT OF GEOLOGY AND MINERALOGY.

## PALÆONTOLOGY AND GEOLOGY.

BY DONATION.

- FRANK ABBOTT, M.D., New York City.  
2 specimens of Fossil Fish, Utah.
- S. P. AVERY, New York City.  
Number of Concretions (Clay Dogs), Lake Champlain.
- BARNUM BROWN.  
Fossils from Kansas City, Mo., and Carbondale, Kan.
- E. CLARK, New York City.  
Vertebrae of *Zeuglodon*, and Shark's teeth, Charleston, S. C.
- C. EICKEMEYER, Yonkers, N. Y.  
2 specimens of Gum Copal, Zanzibar.
- MRS. E. O. HOVEY, New York City.  
Valves of *Dreissena polymorpha* L., Alexandropol, Russian Armenia.
- E. O. HOVEY, New York City.  
Specimens of fossils from James River Valley, Va.
- PROF. LONG, Robert College, Constantinople.  
Specimens of fossils from the Balta liman beds of the Bosphorus.
- F. C. NICHOLAS, New York City.  
Specimens of Cretaceous fossils, U. S. Colombia.
- MRS. G. STORY, Freehold, N. J.  
Mould of *Calymene platys* Green, Freehold, N. J.
- R. P. WHITFIELD, New York City.  
Lower Helderberg fossils, Clarksville, N. Y.
- DELAWARE AND HUDSON CANAL CO.  
3 specimens of mud markings, flowage, etc., from near Albany, N. Y.
- W. WALLACE, New York City.  
2 specimens *Favosites helderbergia* Hall, Cobleskill, N. Y.

BY EXCHANGE.

- 2 specimens of *Pironæa polystylus*, from Cuatretonda, Spain.  
About 250 specimens of Upper Helderberg Corals and a few Univalves from  
Falls of the Ohio, and Clark Co., Ind.

THROUGH MUSEUM EXPEDITIONS.

- FROM RUSSIA AND ITALY, collected by Dr. E. O. Hovey :  
 2 specimens of Coral and Ostracode limestone, Alexander Bridge,  
 Batraki, Volga River.  
 60 specimens of rocks, Ilmen and Ural Mts.  
 25 " " Caucasus Mts.  
 40 " " Russian Armenia.  
 23 " " Lipari Islands.  
 14 " of Obsidian, Pumice, etc., Lipari Is.  
 16 " " rocks, Stromboli and Strombollicchio.  
 16 " " (Devonian), Ural Mts.

## MINERALOGY.

## BY DONATION.

- E. L. ABBOT, New York City.  
2 specimens of Fulgurites, Ustick, Whitside Co., Ill.
- A. AUERBACH & CO., Nikitovka, Russia.  
5 specimens of Cinnabar, 1 specimen of Stibnite, Nikitovka, Russia.
- N. S. BERRAY, Walton, N. Y.  
Specimens of Cuprite, Arizona.
- MISS M. W. BRUCE, New York City.  
34 specimens of great beauty, embracing the mineral species Stilbite, Apophyllite, Heulandite, Microcline, Phacolite, Barite, Fluorite, Calcite, Celestite, Crocidolite, Stephanite, Smoky Quartz, Opalized Wood, and Galena, from localities in England, Australia, Iceland, and the United States.
- L. CAHN, New York City.  
1 specimen of Apophyllite, Paterson, N. J.; 1 specimen of Quartz and Calcite, England; 2 specimens of Endlichite, Hillsboro, N. M.
- G. L. ENGLISH & CO., New York City.  
Associated Galena, Sphalerite, and Chalcocopyrite, Joplin, Mo.
- J. A. GRENZIG, Brooklyn, N. Y.  
1 specimen of Pectolite on Prehnite, Woodcliff, N. J.
- A. E. HEIGHWAY, New York City.  
Specimen of Corundum, Staurolite, and Rutile, from North Carolina.
- M. KWIATKOWSKY, Urals, through Dr. E. O. Hovey.  
2 specimens of Malachite, Nijni Tagilsk, Urals.
- H. VAN HOEVENBERGH, New York City.  
2 limonite concretions holding sand.
- J. A. MANLEY, New Brunswick, N. J.  
Axinite, Roebbingite, and Rhodonite, from Franklin, N. J.
- T. R. McCARTY, New York City.  
2 specimens of Pyrite, New Jersey.
- J. H. WINSER, New York City.  
Specimen of Fuggerite, Le Selle, Monzoni, Tyrol.

## BY EXCHANGE.

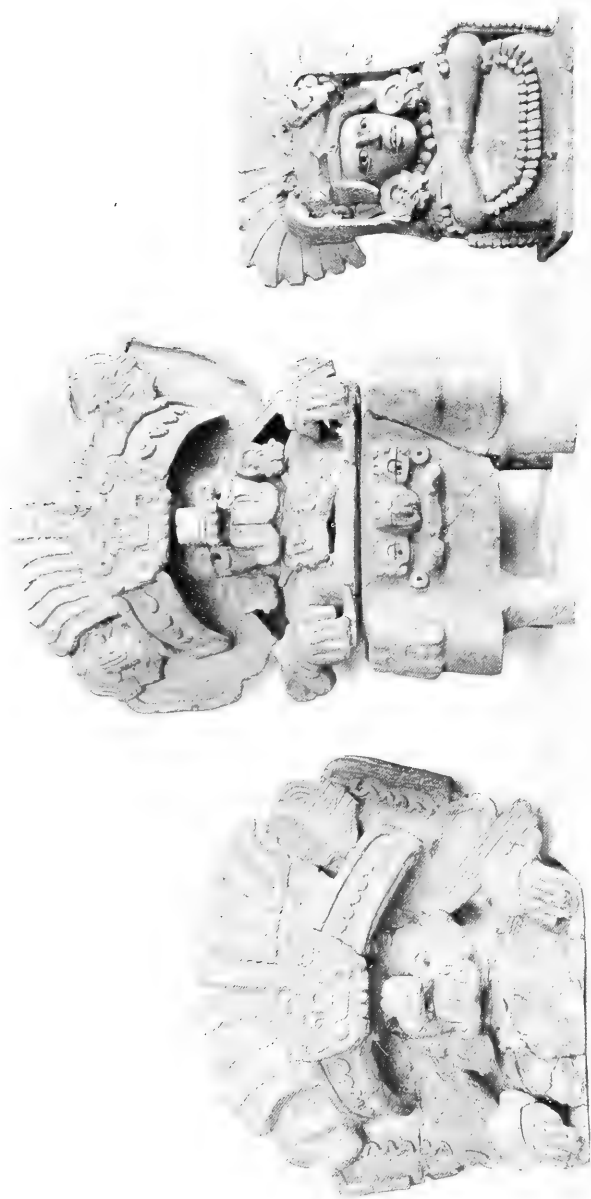
Two specimens of Nevadite, with lustrous Sanidine, from near Leadville, Col.

## THROUGH MUSEUM EXPEDITIONS.

- FROM RUSSIA AND ITALY, collected by Dr. E. O. Hovey:  
40 specimens of minerals, embracing Cinnabar, Stibnite, Cuprite, Malachite, Chrysocolla, Garnet, Sodalite, Elæolite, Actinolite, Hornblende, Ilmenite, Vesuvianite, Chloritoid, Magnetite, Calcite, Aragonite, Tridymite, Leucite, and a large block of Augite, and Andesite perforated by lightning tubes.

## BY PURCHASE.

- 9 specimens of minerals secured by Dr. E. O. Hovey, in Russia, embracing the species Malachite, Tourmaline, Orthoclase, Phenacite, Quartz, and Biotite.
- 1 opalized wood section, Clover Creek, Lincoln Co., Idaho; 1 specimen of Halite, California; Quartz crystals, four phantoms, and a quartz crystal with included bubble, Kingston, N. Y.; 1 large specimen of Calcite, Barrow-in-Furness, Engl.; 1 large specimen of Pyrite Group, Piedmont, Italy.



ZAPOTECAN FUNERAL URNS FROM MOUNDS AT XOVO, MEXICO. MUSEUM EXPEDITION, 1897-98.



CONCHOLOGY.

BY DONATION.

- G. H. CHADWICK, Rochester, N. Y.  
*Siphonaria reeveana* Petit, New Zealand.
- PROF. E. D. COPE (deceased).  
 Bequest of a large collection of fresh-water shells with Neritina.
- T. M. FRY, New York City.  
 Specimens of *Unio corruscus* Gould, Lake Diaz, Fla.
- MRS. E. O. HOVEY, New York City.  
 69 specimens of land shells from the Caucasus, Crete, and Athens.
- DR. E. A. MEARNS, U. S. Army. (Donated in 1892.)  
 A varied collection of shells, embracing 65 species, and some hundreds of specimens of land, marine, and fresh-water shells, from Texas and Minnesota.
- NESMITH & CONSTANTINE CO., New York City.  
 Large log of Teredo-perforated Mahogany, from Panama.
- M. H. SAVILLE, New York City.  
 Specimens of *Pachycheilus*, Palenque, State of Chiapas, Mexico.
- PROF. C. H. SNOW, New York University.  
 16 photographs of *Teredo*, *Limnoria*, and *Pholas*.

BY EXCHANGE.

- 46 specimens, 26 species, of fresh-water shells (*Unio*, *Anodonta*, *Margaritana*) from southern rivers and streams.

THROUGH MUSEUM EXPEDITIONS.

- COLLECTED AT THE NAPLES ZOÖLOGICAL STATION, by Dr.  
 E. O. Hovey:  
 163 specimens, 34 species, in alcohol, embracing various orders.

BY PURCHASE.

- One large *Strombus goliath* Chem., from the West Indies.

MARINE INVERTEBRATES.

BY DONATION.

- B. W. ANDREWS, New York City.  
*Velella* and *Octopus*, Bermuda.
- NEW YORK AQUARIUM.  
 Large specimen *Limulus polyphemus* Linn.
- BROWN BROS., Nassau, N. P., Bahamas.  
 3 specimens of *Diploria cerebriiformis* E. and H., from Nassau, N. P., Bahamas.
- DR. D. B. DELAVAN, New York City.  
 12 handsome specimens of Corals, including species of *Pavonia*, *Astræa*, *Gemmipora*, *Mussa*, *Galaxea*, and *Pocillopora*, from eastern seas.
- F. W. LEGGETT, New York City.  
 A specimen of the sponge *Pachychalina*, from St. Kitts, W. I., and a group of *Vermetus spiratus* Phil., from Bermuda.
- C. C. MARVIN, New York City.  
 One specimen of Spotted Lobster.

- DR. PAUL MAYER, Naples, Italy.  
10 specimens of *Caprella acutifrons* Latr.
- DR. JOSEPH A. NOLAN (deceased).  
20 bottles of Invertebrates in alcohol (Tunicates, Asteroids, Mollusca, etc.).
- MRS. JOHN J. ROBERTS, New York City.  
5 specimens of coral (*Millepora alcicornis* Less.), from the West Indies.
- R. P. WHITFIELD, New York City.  
100 specimens of Corals; 20 specimens of Sponges; 20 Sea-fans, all from Nassau, N. P., Bahamas.

## THROUGH MUSEUM EXPEDITIONS.

- COLLECTED AT THE NAPLES ZOÖLOGICAL STATION, by Dr. E. O. Hovey:  
163 specimens, 69 species (in alcohol), embracing Coelenterates, Echinoderms, Holothurians, Bryozoans, Worms, Crustaceans, and Tunicates.
- COLLECTED AT NASSAU, N. P., BAHAMAS, by Prof. R. P. Whitfield:  
One very large specimen of *Madrepora palmata* Lam.;  
One very large specimen of *Orbicella annularis* Dana.

## BY PURCHASE.

- 47 specimens, mounted in alcohol, embracing Hydrozoans, Actinozoans, Asteroids, Echinoderms, Holothurians, Bryozoans, Mollusca, and Worms; all from the Gulf of Naples, Italy, secured through Dr. E. O. Hovey.
- One *Nautilus pompilius* Linn., with animal and bisected shell, from Polynesia.

## DEPARTMENT OF VERTEBRATE ZOÖLOGY.

## MAMMALS.

## BY DONATIONS.

- ANASTASIO ALFARO, San José, Costa Rica.  
13 Small Mammals from Guatemala.
- J. H. BATTY, Sheepshead Bay, N. Y.  
1 South American Deer, 2 Squirrels, 3 Opossums, 4 Micè, 1 Rabbit, from Colombia, S. A.
- E. C. BECKLE, College Point, Long Island, N. Y.  
1 Gray Squirrel.
- J. H. P. BELL, Gainesville, Fla.  
3 Red Bats.
- PROF. ALBERT S. BICKMORE, New York City.  
5 Skins of Hispid Seal.
- W. E. CARLIN, New York City.  
10 Small Mammals from Bitterroot Mts., Idaho.
- S. H. CHUBB, New York City.  
1 Red Squirrel.
- F. M. CLARK, New York City.  
2 Persian Cats.
- J. A. CROWE, New York City.  
1 Bat.



DEPARTMENT OF AGRICULTURE, Washington, D. C., through Dr.  
C. Hart Merriam, Chief of Biological Survey Division.

24 Specimens, topotypes of recently described species, from Mexico  
and Guatemala.

DEPARTMENT OF PUBLIC PARKS, New York City.

15 Monkeys, 2 Lions (cubs), 2 Pumas, 2 Ocelots, 3 Bears, 2 Raccoons,  
3 Coatis, 3 Foxes, 1 Seal, 1 Bison (calf), 1 Barbary Wild Sheep, 1  
Nylghau, 3 Antelopes, 3 Deer, 1 Elk, 3 Porcupines, 1 Agouti, 1  
Opossum.—Total, 48 specimens, received in the flesh from the  
Central Park Menagerie.

C. A. DEYO, Schoharie, N. Y.

1 Muskrat, 1 Skunk, 1 Mole, 1 Jumping Mouse.

CARL EICKEMEYER, Yonkers, N. Y.

2 Skins and 5 skulls.

EDWARD FUCHS, New York City.

1 Bat.

ABRAHAM GOLDBERG, New York City.

1 Mummified Cat.

FRANK J. GOULD, Irvington, N. Y.

1 St. Bernard Dog.

W. W. GRANGER, New York City.

3 Prong-horned Antelopes, 5 Coyotes, 5 Swift Foxes.

PIERRE HUMBERT, New York City.

1 Head of Newfoundland Caribou.

WILLIAM G. F. KOHL, New York City.

1 St. Bernard Dog.

RICHARD MCGREGOR, Palo Alto, Cal.

1 Gopher, 1 Vesper Bat.

WALTER F. MACKLIN, New York City.

1 Woodchuck.

Miss S. E. MOWER, New York City.

1 Skye Terrier.

H. J. ROSENBERG, Eastport, N. Y.

1 Chipmunk.

JOHN ROWLEY, New York City.

9 Squirrels, 1 Wood Hare.

W. E. SHELBOURNE, Magdalen Islands.

22 Small Mammals from Grosse Isle, Magdalen Islands, Gulf of St.  
Lawrence.

HARLAN I. SMITH, New York City.

1 Deer skull, 1 Raccoon skull, 1 Coyote skull, from British Columbia.

E. B. SOUTHWICK, New York City.

2 Young Gray Squirrels.

D. D. STONE, Oswego, N. Y.

2 Hairy-tailed Moles.

ERNEST SETON THOMPSON, New York City.

6 Small Mammals from Wyoming and Colorado.

C. H. TYLER TOWNSEND, Mesilla Park, N. Mex.

5 Small Mammals from New Mexico.

C. TRAVIS, Ardsley, N. Y.

2 Red Foxes.

HARRISON R. WILLIAMS, New York City.

1 Skin of Giant Anteater.

MRS. A. WITKOW, New York City.

1 Maltese Dog.

ROBERT T. YOUNG, New York City.

19 Small Mammals from Prince Edward Island.

JAMES M. CONSTABLE EXPEDITION.

2 Dall's White Sheep, and 60 Small Mammals, from Arctic America.

BY EXCHANGE.

764 Specimens, chiefly from California, Mexico, and Florida.

BY PURCHASE.

196 Specimens, mostly from California and Lower California.

BIRDS.

BY DONATION.

ANASTASIO ALFARO, San José, Costa Rica.

8 Bird skins from Cocos Islands, 12 bird skins from Guatemala.

BYRON ANDREWS, New York City.

5 Mounted birds.

ARTHUR D. ATWOOD, Tenaflly, N. J.

1 Mounted American Osprey.

J. H. BATTY, Sheepshead Bay, N. Y.

2 Mexican Quails, 6 Central American Tanagers.

BLOCH BROTHERS, New York City.

1 Great Blue Heron.

A. BOOTH, Paterson, N. J.

4 Hawks.

ARTHUR W. BROCKWAY, Lyme, Conn.

1 Florida Wren, 1 Marian's Marsh Wren.

H. L. BURNELL, Brooklyn, N. Y.

1 Grebe.

JOHN L. CADWALADER, New York City.

3 Groups of European Game Birds.

FRANK M. CHAPMAN, Englewood, N. J.

3 Gulls, 1 Warbler, 2 House Sparrows.

MISS K. L. DAVIS, New York City.

1 Canary.

DEPARTMENT OF PUBLIC PARKS, New York City.

16 Parrots, 8 Eagles, 3 Owls, 3 Vultures, 1 Raven, 3 Pheasants, 1 Kingfisher, 1 Crane, 2 Swans, 1 Goose, 2 Pelicans, 1 Gallinule, 1 Heron, 1 Gannet.—Total, 44 specimens, received in the flesh from the Central Park Menagerie.

A. E. DOUGLAS, New York City.

1 Malformed Chicken.

ALEXANDER DOW, New York City.

1 California Vulture.

WILLIAM DUTCHER, New York City.

34 Small birds, from Fire Island Light, N. Y.

WILLIAM DUTCHER, through the Linnæan Society of New York.

29 Bird skins, mostly from Long Island, N. Y.

CARL EICKEMEYER, Yonkers, N. Y.

26 Mounted birds, 20 bird skins, 50 birds' eggs, and four nests.

- THOMAS J. EGAN, Halifax, Nova Scotia.  
1 Pair of King Eiders, mounted.
- S. N. H. GALLARD, New York City.  
1 Weaver Bird, 1 Dove.
- ARTHUR H. HELME, Miller's Place, N. Y.  
4 Bird skins from Japan.
- S. D. HOWELL, Schoharie, N. Y.  
13 Small birds.
- SAMUEL M. KLAGES, Crafton, Pa.  
5 House Sparrows.
- MRS. JOHN S. LAMSON, New York City.  
3 Humming Birds' nests, from Island of Barbadoes, W. I.
- PETER W. MARTIN, New York City.  
1 Oriole.
- H. W. MENKE, Kansas.  
7 Sets of birds' eggs, from Aurora, Wyoming.
- MRS. SUSAN MITCHELL, New York City.  
1 Hybrid Canary.
- R. B. POTTER, Nyack, N. Y.  
1 Hawk.
- H. J. ROSENBERG, Eastport, N. Y.  
1 Wild Turkey.
- J. ROWLEY, New York City.  
1 Finch, 1 Flicker.
- W. P. SHANNON, New York City.  
1 Albino House Sparrow.
- ERNEST SETON THOMPSON, New York City.  
6 Bird skins from Idaho, 97 bird skins from Canada.
- C. TRAVIS, Ardsley, N. Y.  
1 Heron.
- THOMAS M. UPP, New York City.  
1 Grass Parakeet.
- ROBERT WALKER, New York City.  
1 Parakeet.
- MRS. F. W. WALTERS, New York City.  
1 Bittern.
- CHAS. G. WOOD, New York City.  
1 Case of birds' eggs (about 1000 specimens).

BY EXCHANGE.

134 Specimens, mostly Sea Birds.

BY PURCHASE.

65 Specimens, mostly from Florida.

REPTILES AND FISHES.

BY DONATION.

- BYRON ANDREWS, New York City.  
1 Snake skin, 5 Fishes.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
180 Specimens of Fishes, mostly from the waters of New York State,  
received from the New York Aquarium.

CARL EICKEMEYER, Yonkers, N. Y.

14 Reptiles, 5 Fishes.

BENJAMIN H. FITCH, New York City.

4 Lizards.

MRS. JAMES HALL, New York City.

1 Rattlesnake skin.

ALFRED T. JONES, New York City.

5 Lizards, from Chihuahua, Mexico.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

### THROUGH MUSEUM EXPEDITIONS.

From the Jurassic of Wyoming, 141 specimens of parts of skeletons or separate bones of gigantic Reptiles (Dinosaurs), including four complete hind limbs ranging from seven to nine and a half feet in height.

From the Tertiary of Colorado, 300 specimens of Fossil Mammals, including several complete skeletons and many fine examples of new or very rare species.

### BY EXCHANGE.

From the Paris Museum, casts of complete hind foot of *Dimodossaurus* and skeleton of *Actinodon*.

Sent in exchange to University of Lyons, France, specimens or casts of 35 species of Fossil Mammals, representing the life of the Age of Mammals in America, and models of the ancient reptiles *Naosaurus* and *Hadrosaurus*.

## DEPARTMENT OF ANTHROPOLOGY.

### BY DONATION.

A. G. AGNEW, New York City.

Model of a Carretta from Italy.

A. AMMON (through South American Exploration Company).

Stone implement from Santa Marta, Colombia.

CAPT. STANLEY AMSBURY.

Boat from Anam.

BYRON ANDREWS, New York City.

Palm-leaf basket.

MRS. G. C. ARNOLD.

Pair of Lapland shoes made of reindeer skin.

HENRY E. AYRES (through South American Exploration Company).

211 agate beads from Santa Marta, Colombia.

MRS. SALLY MORRIS CORY, New York City.

A bronze chime, a cloisonné teaset, an opium jar, a Satsuma jar, and a cribbage board,—additions to the collection before given to illustrate Chinese customs.

J. DORENBERG, Darmstadt, Germany.

Photographic reproduction of an ancient Mexican Codex, formerly known as the Codex Dorenberg and now called the Codex Colombino. Also three photographs of ancient Mexican Atlatis.

JAMES DOUGLAS, New York City.

A large collection of Apache baskets and water-bottles. Also an Apache arrow.

CARL EICKEMEYER, New York City.

Ethnological collection from the Indian tribes of the southwestern United States; stone implements from several localities in the United States; pottery vessels and stone implements from Colombia, S. A.; two large photographs (framed) of New Mexican pueblos.

JESSE D. FIGGINS, New York City.

Two arrow points from Drummond, Va.

GEORGE H. FOUNTAIN, Plainfield, N. J.

Twelve chipped implements of argillite from near Plainfield, N. J.

SERGEY FRIEDE.

An Ainu coat.

M. RAYMOND HARRINGTON, Mount Vernon, N. Y.

Three stone mortars; several large quartzite chips from Westchester Co., N. Y.; one photograph.

H. C. HUMPHREY (through South American Exploration Co.).

Two pieces of pottery; one pottery vase and thirty-one stone beads from Santa Marta, Colombia.

B. T. B. HYDE, New York City.

A collection illustrating the making of a Navajo blanket, consisting of sheep pelts, wool in its several stages of preparation, native dyes, weaving implements, a loom with a blanket partly woven, and twenty-one photographs showing the Navajos at work making the dyes, preparing the wool and weaving; also a collection showing pieces of buckskin colored by native dyes.

ARTHUR CURTISS JAMES, New York City.

An extensive collection of Ainu objects from the Island of Yezo. This collection was secured by Mr. James, while in Yezo, during the cruise of the 'Coronet,' for the purpose of illustrating the customs of the Ainu. It consists of garments, ornaments, mats, fibres, loom, utensils, weapons, ceremonial objects, and model of Ainu house.

MORRIS K. JESUP, New York City.

A carved stone yoke from State of Vera Cruz, Mexico.

HUGH KELLY.

A stone axe and six potsherds from San Domingo.

GEORGE WISTER KIRKE, New York City.

An Indian shirt.

JOHN HOWARD LATHAM (through South American Exploration Co.).

Four stone objects; one egg-shaped stone; one perforated stone implement; and two celts from Santa Marta, Colombia.

DUKE OF LOUBAT, New York City.

A carved stone yoke from State of Vera Cruz, Mexico. A cast, made from Maudslay's moulds, of the largest stela at Quirigua, Guatemala (this is 25 ft. high and is the largest American sculptured monolith known). A cast from the Peabody Museum moulds of the second largest stela (23 ft. high) from Quirigua. A cast from Maudslay's moulds of the great stela (II) of the ruins of Copan, Honduras; and the back of stela D from Copan. Casts from the Peabody Museum moulds of stelæ A, B, E, I, J, P, 1, 2, 6, 7, 9, 11; altars T, Q, D, N, B, F, S, J, I, and sculptures 6, G2, A, A1, A2, all from Copan. A series of casts from the Royal Ethnological Museum of Berlin, as follows: 67 sculptures from Mexico, 4 from Peru, 4 from Asia, and 2 from Hawaii. A

collection of photographs by T. Maler of sculptures in Chiapas, Mexico, and Guatemala. A copy of the reproduction of the Codex Borgiano, and numerous plates and volumes to illustrate the pictographic writings of the ancient Mexicans and Mayas.

CLARENCE B. MOORE, Philadelphia, Pa.

A counterfeit of a chipped flint implement.

J. V. SANTVOORD, New York City.

A Dakota doll.

JACOB SCHIFF, New York City.

A collection illustrating the use of the cocoanut palm by the Melane-  
sians, and a collection illustrating the use of iron by the Africans.

SMITHSONIAN INSTITUTION, Washington, D. C.

Cast of one of the three slabs of the Tablet of the Cross of Palenque,  
Mexico.

BENJAMIN STRONG, JR. (through South American Exploration Co.).

Two ornaments made of serpentine from Santa Marta, Colombia.

OLIVER S. STRONG (through the South American Exploration Co.).

56 agate beads from Santa Marta, Colombia.

WILLIAM WALLACE (through the South American Exploration Co.).

387 agate beads from Santa Marta, Colombia.

W. A. WHITE, Sag Harbor, N. Y.

Several stone implements and four stone gorgets from New York  
State.

JOHN WISMAN, Brooklyn, N. Y.

Twenty-two chipped stone points from several localities in New York  
State.

CAPT. E. G. ZALINSKI, New York City.

Three Japanese spears.

#### FROM MUSEUM EXPEDITIONS.

THE JESUP NORTH PACIFIC EXPEDITION. Gift of Morris K.  
Jesup, New York City.

Specimens illustrating the religious ceremonials of the Kwakiutl.  
Collected by Mr. George Hunt.

Ethnological collection from the Lillooet and from Thompson River  
Indians. Collected by Mr. James Teit.

Archæological and ethnological specimens and photographs from Fort  
Rupert, Comox, Sanitch, and the delta of Fraser River. Col-  
lected by Harlan I. Smith.

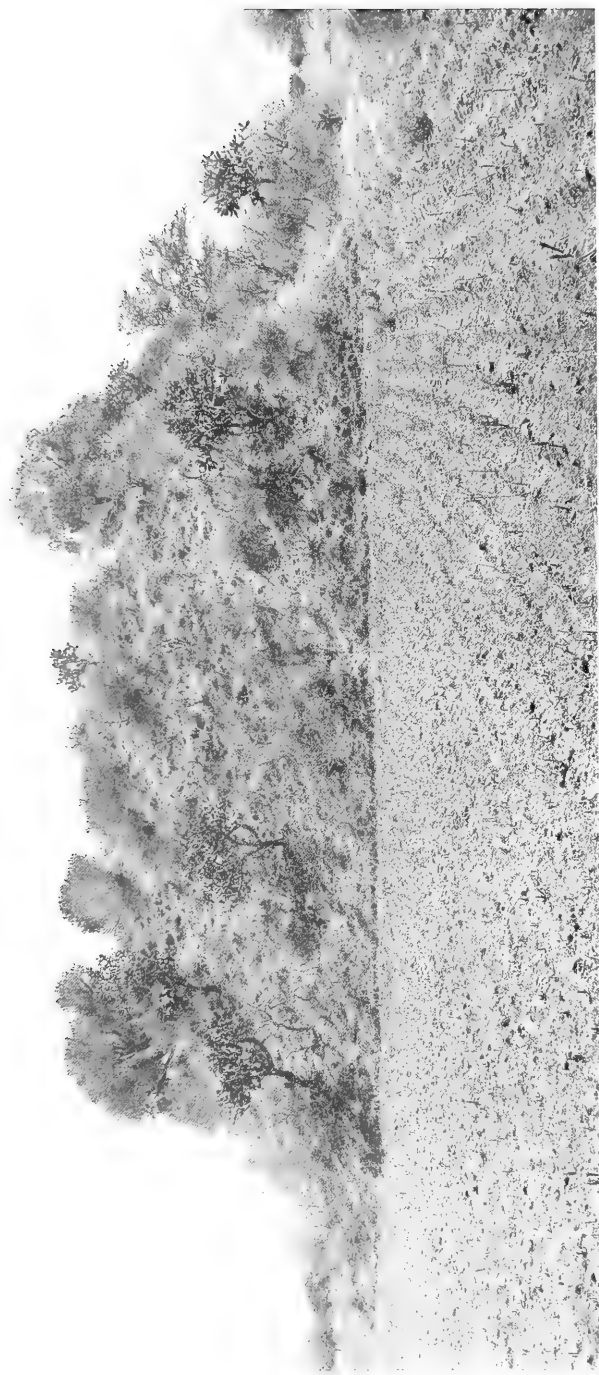
Ethnological specimens from the Indians of the west coast of Wash-  
ington. Collected by Dr. Livingston Farrand.

Plaster casts and photographs of Indians from Washington and  
southern British Columbia. Collected by Mr. Roland B. Dixon.

Ethnological specimens from Port Clarence, Alaska. Collected by  
Captain Miner Bruce.

THE HYDE SOUTHWESTERN EXPEDITION. Gift of B. Talbot B.  
Hyde and F. E. Hyde, Jr., New York City.

A collection of several thousand objects from the exploration of the  
ruins of the Pueblo Bonito, Chaco Cañon, New Mexico; human  
skeletons, pottery, implements, ceremonial objects, ornaments and  
carvings; also many photographs of the ruins and objects in place.  
Collected by G. H. Pepper.



THE GREAT MOUND AT XONO, MEXICO. MUSEUM EXPEDITION, 1897-98.





A collection from the cliff-houses and caves of the Grand Gulch region of southern Utah, consisting of nearly two thousand objects, including mummies, baskets, pottery and weapons; implements of wood, stone and horn; feather blankets and cloth blankets; garments and sandals; also a number of photographs showing the method of burial of two different peoples in this region. Collected by Richard Wetherell and party.

EXPLORATIONS IN THE DELAWARE VALLEY. Gift of Dr. F. E. Hyde, New York City.

Stone implements from the glacial deposits at Trenton, N. J. Photographs showing the implements in place and the geological features; drawings and plans of the excavations; also human skeletons, stone implements, and other objects from the ancient burial-places and village-sites, near Trenton, N. J. Collected by Ernest Volk.

#### MEXICAN EXPEDITIONS.

Ethnological specimens from the States of Chiapas and Oaxaca, and photographs of Indians. Collected by M. H. Saville.

Archæological specimens from the explorations of mounds and tombs in Oaxaca and from the ruins of Palenque. Also many photographs of the explorations and ruins. Collected by M. H. Saville.

Archæological specimens from the ruins of Cempoalla; San Juan Teotihuacan; Valley of Mexico, and other places in Mexico. Collected by M. H. Saville.

Ethnological collections from the Tarahumaras and Huichols. These collections are particularly important on account of the full series of ceremonial objects of which the meaning was also obtained. Many photographs illustrating Indian types and ceremonies were taken, graphophone records of seventy Indian songs were made, and several human skeletons and numerous archæological objects were secured. Collected by Dr. Carl Lumholtz.

Human skeletons, and various objects found with them, from several caves and burial-places; plaster casts of 12 Tarahumaras and 14 Huichols; many full measurements of Tarahumaras, Huichols, and Tepecanos. Collected by Dr. A. Hrdlička.

A careful examination was also made by Doctors Lumholtz and Hrdlička of the remarkable adobe deposits at San Simon and other places, where a number of human skulls and four human skeletons were secured, with other objects found in these deposits.

#### JAPANESE EXPEDITION.

A collection illustrating the daily life of the Japanese people. Collected by Dr. B. Laufer.

#### EXPEDITION IN PERU AND BOLIVIA.

A large collection of pottery vessels, stone and copper implements, stone and metal utensils, personal ornaments, and various other objects from the graves and ruins of several localities in eastern Bolivia; also many human skulls, a number of which show trephining, from the chulpas of eastern Bolivia. Collected by Dr. A. F. Bandelier.

#### BY EXCHANGE.

FROM THE KÖNIGL. ETHNOGRAPHISCHES MUSEUM, Berlin.  
Ethnological objects from Africa.

FROM THE KÖNIGL. ZOOLOGISCHES UND ANTHROPOLOGISCH-ETHNOGRAPHISCHES MUSEUM, Dresden.  
Ethnological objects from Indonesia.

## BY PURCHASE.

- The Finsch Collection, consisting of a large number of objects illustrating the culture of the tribes of Melanesia and Micronesia; casts of faces and samples of hair of the natives; a detailed catalogue and many drawings and full descriptions of the specimens, by Dr. O. Finsch.
- Ninety-five stone implements from New York State. An ethnological collection from the Gulf of Carpentaria. Ethnological specimens from the Goajira Indians. A large carved mammiiform stone from the Island of Dominica. Ethnological specimens from North American Indians. Large pottery vessels from New York. Two suits of Japanese armor. A collection of ancient Tarascan pottery from near Ixtlan, Mexico. Several small collections of pottery, jade objects, ornaments, sculptures, and stone implements from various localities in Mexico.

## DEPARTMENT OF ENTOMOLOGY.

## BY DONATION.

- VERY REV. E. A. HOFFMAN, New York City.  
2250 Mexican, Central and South American butterflies.
- DIXON G. HUGHES, through South American Exploration Co.  
A collection of butterflies from Colombia.
- ALFRED G. EVANS, through South American Exploration Co.  
A collection of butterflies from Colombia.
- E. A. PRATT, Ryde, Isle of Wight, England.  
Two long-horn beetles from Colombia.
- WM. R. STARRETT, New York City, through South American Exploration Co.  
3 ants' nests, from Colombia.
- DEVEREAUX TOLER, New York City, through South American Exploration Co.  
A collection of butterflies from Colombia.
- L. H. JOUTEL, New York City.  
2 *Saperda puncticollis*; 1 nest of hornet (*Vespa crabro*).
- B. CLÉMENCON, Hoboken, N. J.  
Eggs of Japanese silk-worm moths.
- EDWARD DAMBACHER, New Jersey.  
Borings of carpenter bee.
- J. MYERS, Hackensack, New Jersey.  
Combs of honey bee.
- BENJAMIN LANDER, Nyack, N. J.  
Larvæ of 17-year locust.
- J. H. BATTY, Gravesend, Long Island, N. Y.  
Collection of butterflies from Colombia, S. A.

## BY PURCHASE.

- 2 nests of hornet (*Vespa crabro*); 8 *Omus ambiguus*, from California; 150 specimens of *Catocala*; 40 Texan and Mexican butterflies; 1 aberration of *Pyrameis huntea*; a collection of beetles, from Colorado, Texas, and Arizona.

# INCORPORATION.

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

" SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Charles A. Dana, Joseph H. Choate, and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction and recreation.

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension, and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules, and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared

to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase, or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.<sup>1</sup>

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes.

SEC. 5. This Act shall take effect immediately.

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STATE OF NEW YORK, }  
OFFICE OF THE SECRETARY OF STATE. } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. S.]                      Given under my hand and seal of Office at the City of Albany,  
   this fourteenth day of April, in the year one thousand eight  
   hundred and sixty-nine.

D. WILLERS, JR., *Deputy Secretary of State.*

<sup>1</sup> As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

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ARTICLE I.

This Corporation shall be styled the AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II.

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, shall be the Trustees to manage the affairs, property, and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August, and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special

meeting, and of the object thereof, at least three days before the meeting is held.

#### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, and a Treasurer, all to be elected from the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee, and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

#### ARTICLE V.

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives, and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meet-

ing of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The office of Secretary and of Assistant Treasurer may be held by the same person.

#### ARTICLE VI.

The Executive Committee shall consist of nine, of whom the President, First and Second Vice-Presidents, and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four, and five years, respectively, and the terms for which those drawing the two, three, four, and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library, and other property of the Museum; and shall have power to purchase, sell, and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented

against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also have the books of the Museum duly audited at least once in six months by an authorized public accountant to be selected by them.

#### ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name and to take all proper measures to provide means for its support; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

#### ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

#### ARTICLE X.

The President shall be a member, *ex-officio*, of all standing committees.

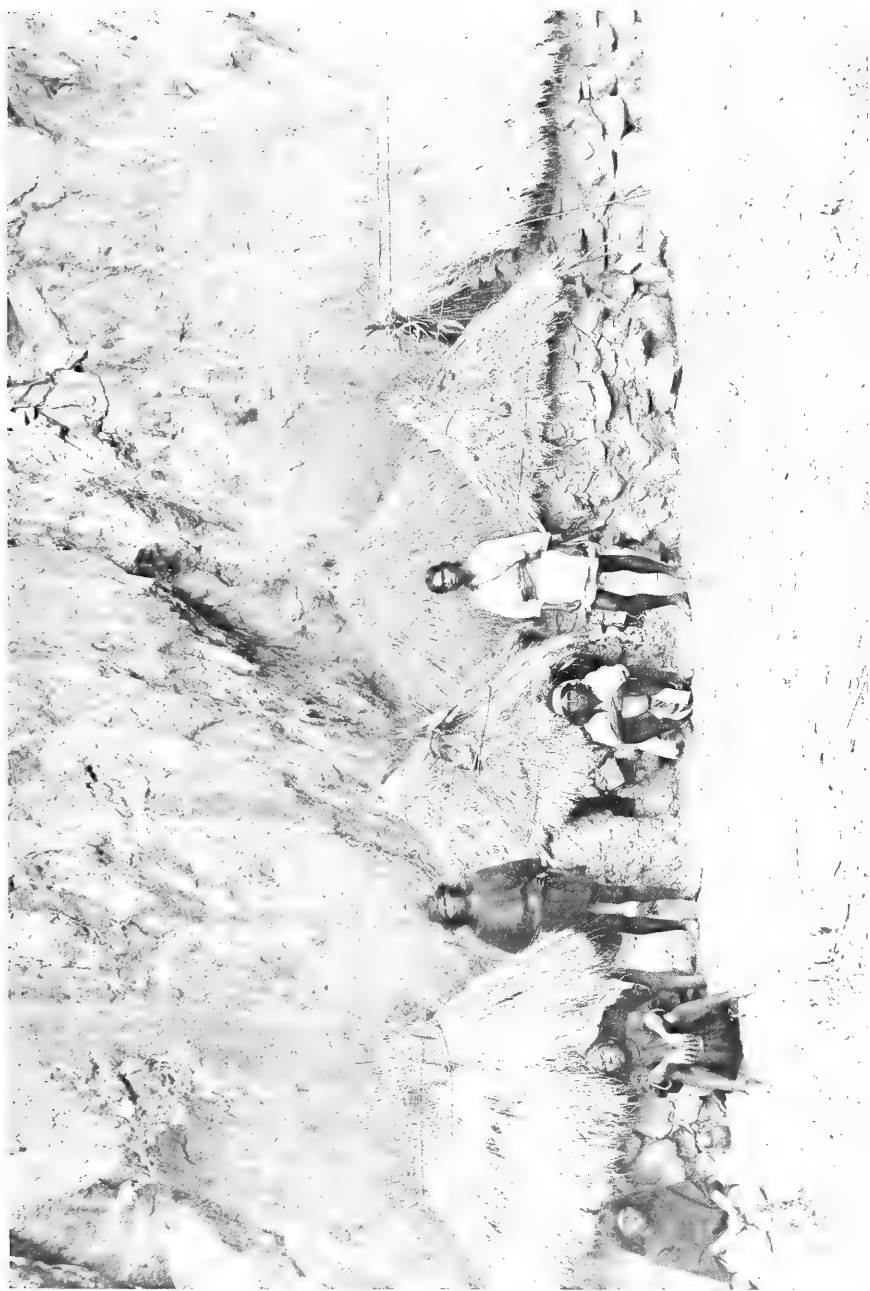
#### ARTICLE XI.

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

#### ARTICLE XII.

By-Laws may from time to time be made by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.





SMALL TEMPLE AND GOD-HOUSES OF THE HUICHO INDIANS, MEXICO. MUSEUM EXPEDITION, 1897-98.



ARTICLE XIII.

The contribution of \$1000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

ARTICLE XIV.

Any person who has held the office of President for <sup>ten</sup>ten or more successive years may be elected by the Trustees as Honorary President for life.

ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees; or at a special meeting called for this purpose, nor by the votes of less than a majority of all the trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

Patrons, giving \$1000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket, and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket, and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

### III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

### IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer, or employee of the Museum,

except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

V.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

VI.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

VIII.

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.

## PATRONS.

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 ROBERT L. STUART.\*  
 Miss C. L. WOLFE.\*  
 ROBERT COLGATE.\*  
 FREDERIC W. STEVENS.  
 PERCY R. PYNE.\*  
 JAMES M. CONSTABLE.  
 JOHN B. TREVOR.\*  
 ADRIAN ISELIN.  
 HUGH AUCHINCLOSS.\*  
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 J. PIERPONT MORGAN.  
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 EDWARD CLARK.\*  
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 JAMES BROWN.\*  
 A. T. STEWART.\*  
 S. WHITNEY PHENIX.\*  
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 OLIVER HARRIMAN.  
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 Miss PHEBE ANNA THORNE.  
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 JOHN A. C. GRAY.\*  
 HEBER R. BISHOP.  
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 WILLIAM E. DODGE.  
 PETER COOPER.\*  
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 A. H. BARNEY.\*  
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 JAMES R. ELY.  
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 JOHN JACOB ASTOR.\*  
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 CYRUS W. FIELD.\*  
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 JOHN J. CROOKE.  
 HENRY SELIGMAN.  
 RICHARD T. WILSON.  
 JOHN E. PARSONS.  
 FRANCIS O. MATTHIESSEN.

\* Deceased.

A. J. FORBES-LEITH.  
 GEORGE BLISS.\*  
 M. C. D. BORDEN.  
 ARCHIBALD ROGERS.  
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 VICTOR CORSE THORNE.  
 EDWIN THORNE.  
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 L. P. DI CESNOLA.  
 GEO. DEXTER BRADFORD.\*  
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 JOHN T. TERRY.

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 Miss FRANCES PELL.  
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 JAMES W. PINCHOT.  
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 CHANDLER ROBBINS.  
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 EFFINGHAM TOWNSEND.  
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 EDWARD TUCK.  
 EDWARD UHL.

\* Deceased.

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HENRY H. WOTHERSPOON.  
JOHN H. WYMAN.\*  
MRS. JOHN J. WYSONG.

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Abegg, Henry  
Abegg, J. H.  
Abeel, George  
Acker, Franklin  
Adee, Philip H.  
Agnew, A. G.  
Agnew, John T.  
Aitken, John W.  
Alden, R. Percy  
Aldrich, Mrs. H. D.  
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Alexander, Jas. W.  
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Allen, Calvin H.  
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Ammon, Adolph  
Amsinck, Gustav  
Amy, H.  
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Appleton, Wm. H.  
Appleton, W. W.  
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Archer, George A.  
Armour, H. O.  
Arms, George  
Armstrong, James  
Arnold, E. S. F., M.D.

Arnold, John H. V.  
Aufhauser, Samuel  
  
Babcock, Samuel D.  
Baker, Frederic  
Baker, Robert B.  
Baldwin, J. G., M.D.  
Baldwin, O. D.  
Ballantine, Robert F.  
Ballin, Gustav  
Bangs, L. Bolton, M.D.  
Banyer, Goldsborough  
Barber, A. L.  
Baring, Cecil  
Barnes, E. W.  
Barnes, John S.  
Barney, Chas. T.  
Barney, N. C.  
Bawden, Wm.  
Beadlestone, Mrs. Wm. H.  
Beaman, Charles C  
Beckel, Joseph  
Bedle, Joseph D.  
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Beers, M. H.  
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Berdell, Theodore  
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Bernheimer, Mrs. A.  
Bernheimer, Charles D.  
Bernheimer, Charles L.  
Bernheimer, Simon  
Berrian, Charles M.  
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Bianchi, F.  
Bien, Julius  
Biglow, Lucius Horatio  
Bissinger, Philip  
Blackman, Louis H.  
Blagden, George  
Bliss, George T.  
Blodgett, Dr. F. J.  
Bloodgood, John H.  
Blossom, Benj.  
Blumenstiel, A.  
Blumenthal, Aug.  
Boas, Emil L.  
Boettger, Henry W.  
Bogert, Henry A.  
Bogert, Stephen G.  
Bond, Frank S.  
Bonn, William B.  
Bookstaver, H. W.  
Booss, Frederick,  
Borg, Simon

\* Deceased.

- Boskowitz, I.  
 Bouton, J. W.  
 Bowers, John M.  
 Bowdoin, G. S.  
 Bradley, S. R.  
 Bradley, William H.  
 Breslin, James H.  
 Briesen, Arthur von  
 Briesen, Frank von  
 Bristol, John I. D.  
 Brockway, A. N., M.D.  
 Brockway, Fred. J., M.D.  
 Brookfield, Wm.  
 Brooks, Charles M.  
 Brower, Wm. L.  
 Brown, Alfred S.  
 Brown, J. Crosby  
 Brown, Vernon H.  
 Browning, Wm. H.  
 Bruce, S. D.  
 Bryce, William  
 Burden, Henry, 2d  
 Burden, James A.  
 Burr, Wm. H.  
 Butler, Prescott Hall  
 Butler, Wm. Allen  
 Byrne, John  
  
 Cabot, Dr. John  
 Calder, George  
 Calman, Emil  
 Calman, Henry L.  
 Cammann, H. H.  
 Cannon, H. W.  
 Carter, A.  
 Carter, James C.  
 Carter, Walter S.  
 Cassard, William J.  
 Chambers, Frank R.  
 Chesebrough, Robert A.  
 Chichester, Chas. F.  
 Chisolm, George E.  
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 Cisco, John J.  
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 Clark, George C.  
  
 Clark, William N.  
 Clarke, Charles C.  
 Clarke, George C.  
 Clarke, Thomas B.  
 Clarkson, Frederick  
 Clausen, George C.  
 Cleary, John  
 Cleveland, Treadwell  
 Clinch, Edward S.  
 Cochran, John W.  
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 Coffin, Edmund  
 Coggeshall, Edwin W.  
 Cohen, Samuel M.  
 Colgate, Abner W.  
 Colgate, R. R.  
 Collins, Miss Ellen  
 Collins, Miss M. M.  
 Compton, A. T.  
 Conger, Henry C.  
 Conkling, Rev. Dr. N.W.  
 Constable, Frederick A.  
 Cook, Chas. T.  
 Cooper, John  
 Cornell, R. R.  
 Coster, C. H.  
 Crawford, R. L.  
 Crocker, George Aug.  
 Cross, Richard J.  
 Cummings, Richard  
 Cutting, Robt. Fulton  
 Cutting, W. Bayard  
  
 Dalley, Henry, Jr.  
 Daly, Augustin  
 Daly, Chas. P.  
 Davenport, Ira  
 Davies, William G.  
 Davis, Benjamin P.  
 Davis, Joseph P.  
 Davison, C. A.  
 Day, Edward G., M.D.  
 Day, Henry M.  
 Day, Miss Lydia  
 Decker, Joseph S.  
 Deeves, Richard  
 Delafield, Maturin L.  
  
 Derby, Richard H.  
 deForest, Robert W.  
 deRham, Charles  
 deCoppet, Henry  
 DeKlyn, B. F.  
 De Vinne, Theo. L.  
 De Witt, George G.  
 Dewitt, William G.  
 Dickie, E. P.  
 Dickey, Mrs. Hugh T.  
 Diestel, Wm.  
 Dieterich, Chas. F.  
 Dimock, Henry F.  
 Dix, Rev. Morgan, D.D.  
 Dodd, S. C. T.  
 Dodge, Cleveland H.  
 Dodge, George E.  
 Dodge, Miss Grace H.  
 Dodge, Mrs. Wm. E., Jr.  
 Dommerich, L. F.  
 Dormitzer, Mrs. Henry  
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 Doughty, Mrs. Alla  
 Douglass, Alfred  
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 Elder, Mrs. M. A.  
 Elliott, Edward  
 Elliott, George  
 Ellis, John W.  
 Ellsworth, Wm. W.  
 Ely, Miss Elizabeth L.  
 Eno, Amos F.  
 Erbsloh, R.

- |                           |                         |                        |
|---------------------------|-------------------------|------------------------|
| Ettlinger, Louis          | Greenwood, Isaac J.     | Holt, Henry            |
| Evans, Richard            | Gregory, Chas. E.       | Holt, Miss Lydia C.    |
| Evans, William T.         | Guggenheimer, Randolph  | Holt, R. S.            |
| Evarts, W. M.             | Gulliver, William C.    | Hopkins, George B.     |
|                           | Gurnee, W. S.           | Horton, Burrett W.     |
| Fahnestock, H. C.         |                         | Hoyt, Chas. A.         |
| Fairchild, Charles S.     | Haber, Louis I.         | Hoyt, Dr. Ezra P.      |
| Fargo, James C.           | Hague, James D.         | Hoyt, Gerald L.        |
| Farnham, Mrs. Horace P.   | Hall, Mrs. John H.      | Hubbard, Gen. T. H.    |
| Fatman, Morris            | Halls, William, Jr.     | Hunter, Mrs. M. L.     |
| Ferris, Frank A.          | Halsted, Miss Mary M.   | Huntington, A. M.      |
| Fisher, Herman C.         | Hamilton, John L.       | Hüpfel, J. Chr. G.     |
| Flagler, John H.          | Hardenberg, J. P.       | Hutton, F. R.          |
| Fletcher, Andrew          | Hardt, William Ernest   | Hyatt, A. M.           |
| Flint, Miss Helena        | Hartley, Marcellus      | Hyde, Clarence M.      |
| Flower, A. R.             | Hatzel, Frederick H.    | Hyde, Mrs. Augustus L. |
| Flower, Frederick S.      | Havemeyer, J. C.        | Hyde, Dr. Frederick E. |
| Foote, C. B.              | Haven, J. Woodward      |                        |
| Ford, James B.            | Haviland, Edwin         | Ireland, John B.       |
| Foster, Edward W.         | Hawley, Edwin           | Iselin, Adrian, Jr.    |
| Foster, Scott             | Hawley, Henry E.        | Iselin, C. Oliver      |
| Frankenberg, D.           | Hayden, Brace           | Iselin, Wm. E.         |
| Fraser, Alfred            | Hayes, R. Somers        |                        |
| Frazer, Wm. C.            | Haynes, A. E.           | Jackson, Charles A.    |
| Free, C. Lincoln          | Heckscher, John G.      | Jackson, Geo. T., M.D. |
| Freeborn, G. C., M.D.     | Hedges, James           | Jackson, John B.       |
| French, S. A.             | Hegeman, John R.        | Jackson, Wm. H.        |
| Freygang, George          | Heide, Henry            | Jacobus, John S.       |
| Frissell, A. S.           | Heinsheimer, L. A.      | Jaeger, Francis M.     |
|                           | Heminway, Homer         | Jaffray, Robert        |
| Gadd, Luther G.           | Hendricks, Edmund       | Janeway, E. G.         |
| Gade, W. F.               | Hernsheim, Joseph       | Jaques, George B.      |
| Garland, James A.         | Heroy, Mrs. James H.    | Jenkins, Wm. L.        |
| Gay, Joseph E.            | Higbie, Wm. H.          | Jeremiah, Mrs. H.      |
| Gibb, John                | Higgins, Francis        | Jesup, Jas. R.         |
| Goddard, F. N.            | Hill, Geo. H. B.        | Jones, H. Le Roy       |
| Godfrey, Chas. H.         | Hill, James K.          | Jones, Oliver L.       |
| Godkin, Edwin L.          | Hilyard, George D., Jr. | Jones, Walter M.       |
| Goldschmidt, Geo. B.      | Hinchman, Walter        | Judson, Alfred M.      |
| Goodridge, Mrs. Frederick | Hinman, W. K.           | Juilliard, A. D.       |
| Gossler, G. H.            | Hinton, J. H., M.D.     |                        |
| Gotthold, Fred.           | Hoadly, George          | Kahn, Otto H.          |
| Grace, Wm. R.             | Hoagland, Joseph C.     | Kellogg, L. Laflin     |
| Gracie, J. K.             | Holden, E. B.           | Kellogg, Mrs. Chas.    |
| Graham, Malcolm           | Holden, E. R.           | Kemp, Edward           |
| Green, Horace             | Holly, Henry H.         | Kendall, Edward H.     |
| Greff, Ernest F.          | Holmes, Wm. H.          | Kennedy, John S.       |

Kerbs, Adolf	Livingston, Wm. S.	Mildeberger, Mrs. John
Kerner, Charles H.	Lobenstein, W. C.	Millholland, John E.
Kerwin, Andrew J.	Lockman, Jacob K.	Miller, D. S.
Kevan, William	Loeb, S.	Miller, Geo. Macculloch
Kilner, S. E.	Loewi, Valentine	Milmine, George
Kimbel, Henry	Lord, Benjamin	Mitchell, Alfred
King, William F.	Lord, Mrs. D. D.	Mitchell, Chas. E.
Kingman, Abel Willard	Louis, Chas. H.	Mitchell, Dr. H. W.
Kinnicutt, Dr. F. P.	Lounsbery, R. P.	Mitchell, John J.
Klatzl, John C.	Low, C. Adolphe	Mitchill, Mrs. S. L.
Klenke, William H.	Ludington, C. H.	Moir, James
Knapp, H., M.D.	Lueder, A.	Moller, Peter, Jr.
Knower, Benj.	Lummis, Wm.	Moore, Francis C.
Koch, H. C. F.	Lydig, David	Moore, Miss Katharine T.
Kohlman, Charles		Moore, Mrs. W. D.
Kohn, S. H.	Mack, J. W.	Moore, W. H. H.
Kohns, L.	Mackenzie, Duncan E.	Morgan, George H.
Kraus-Boelte, Mrs. Maria	Mackey, Oscar T.	Morgan, John
Kraus, William	Macy, I. Augustus	Morris, Henry Lewis
Kuttroff, Adolf	Maitland, Robert L.	Morrison, George A.
	Malcolm, W. L.	Moss, John H.
Ladew, Mrs. H. S.	Mali, Charles	
Lagowitz, Miss H. L.	Man, William	Navarro, Juan N.
Laidlaw, Henry B.	Mansfield, Howard	Nelson, Wm.
Landon, Francis G.	Marble, Cyrus C.	Nichols, John W. T.
Lange, Dr. F.	Markoe, Dr. Thos. M.	Nisbet, William F.
Lange, J. D.	Marlor, Henry S.	Nott, Frederick J.
Langeloth, J.	Marshall, Charles H.	
Langmann, G., M.D.	Martin, W. M.	Ogilvie, James H.
Lapham, Lewis H.	Mayer, Emil, M.D.	Olcott, E. E.
Lapham, S. V.	McAlpin, C. W.	Olcott, F. P.
Lathers, Richard	McAlpin, D. H.	Olmstead Dwight H.
Lauderdale, J. V., M.D.	McAlpin, George L.	Olyphant, R. M.
Lavelle, Rev. Michael J.	McClintock, Emory	Olyphant, Robert
Lawrence, Cyrus J.	McComb, J. Jennings	Oppenheimer, Dr. H. S.
Lawrence, Mrs. Samuel	McCready, Mrs. C. A.	Owen, Mrs. Thomas J.
Layng, James D.	McCurdy, Richard A.	Owens, Wm. W.
Leavitt, Henry S.	McDonald, John E.	
Leaycraft, J. Edgar	McIntyre, Ewen	Paddock, Eugene H.
Lehman, E.	McKee, Russell W.	Palmer, N. F.
Leshner, A. L.	McKim, Rev. Haslett, Jr.	Palmer, S. S.
Lewis, Mrs. John V. B.	McLean, George H.	Park, Joseph
Lewis, Richard V.	Mead, Theo. H.	Parrish, James C.
Lewishon, Mrs. Leonard	Merrall, William J.	Parsell, Henry V.
Littlefield, Frederick M.	Metcalfe, John T., M.D.	Parsons, Mrs. Edwin
Livingston, Edward	Meyer, Thomas C.	Parsons, Joseph H.
Livingston, H. T.	Middleton, A. D.	Parsons, W. H.

Patterson, Edward	Root, Elihu	Snow, Elbridge G.
Peabody, Arthur J.	Rothschild, J.	Sooysmith, Charles
Peabody, George Foster	Rothschild, V. Henry	Squires, Grant
Peck, Charles E.	Rowell, George P.	Stachelberg, Mrs. M.
Pell, Frederick A.	Rowland, George	Stanton, John
Pell, John H.		Stanton, J. R.
Pellew, Henry E.	Sage, Russell	Starin, John H.
Penfold, Wm. Hall	Saltus, J. Sanford	Stearns, John Noble
Penniman, George H.	Sands, Andrew H.	Stebbins, Jas. H.
Pentz, Frank R.	Sands, Daniel C.	Stechert, Gustav E.
Perry, William A.	Sands, Mrs. B. Aymar	Steers, Edward P.
Peters, Samuel T.	Sauter, Fred	Steers, Henry
Peters, W. R.	Sayre, Lewis A., M.D.	Steinway, Fred. T.
Peterson, Frederick, M.D.	Schaefer, Edward C.	Stephens, Benjamin
Phillips, Guy	Schaeffer, Hermann	Stern, Benjamin
Pickhardt, Carl	Schafer, Samuel N.	Stewart, Lisenard
Pinkus, F. S.	Schafer, Simon	Stewart, William R.
Platt, Isaac S.	Schefer, Carl	Stickney, J.
Platt, John R.	Scheitlin, Edward	Stiehl, Gustav H.
Powel, de Veaux	Schernikow, Ernest	Stone, Edwin
Powell, Wilson M.	Schott, Charles M., Jr.	Stone, Mason A.
Pray, Joseph M.	Schultze, John S.	Stone, Mrs. Catherine C.
Pryer, Charles	Scribner, Mrs. J. Blair	Stone, Mrs. Georgiana C.
Purdy, Wm. Macneven	Scudder, Hewlett	Stone, Sumner R.
Putnam, George L.	See, Mrs. Horace	Storm, Clarence
Putnam, Mrs. Albert E.	Seligman, Isaac N.	Storm, George
Putney, W. B.	Sellew, T. G.	Stratford, Wm.
Pyle, Jas. Tolman	Sennett, George B.	Strong, Wm. L.
	Seton, William	Sturges, Henry C.
Quinlan, William J., Jr.	Sharp, W. W.	Sutherland, John L.
	Sherman, Charles A.	
Raymond, Charles H.	Sidenberg, Gustavus	Taber, John R.
Reilly, James	Sidenberg, Richard	Tailer, Edward N.
Renwick, Edward S.	Sill, Charles	Taintor, C. M.
Rhineland, Chas. E.	Simpson, John Boulton	Taintor, Charles N.
Rhoades, J. Harsen	Simpson, John W.	Talcott, James
Richard, Auguste	Sinclair, John	Talmadge, Henry
Riker, John L.	Sloan, Samuel	Tandy, Rev. P. W.
Riker, Samuel	Smith, Adon	Taylor, Mrs. Aug. C.
Riker, Wm. J.	Smith, Charles S.	Taylor, George
Robbins, Rowland A.	Smith, Geo. W.	Taylor, Peter B.
Robbins, S. Howland	Smith, James Rufus	Taylor, Stevenson
Roberts, Miss Mary M.	Smith, John Jewell	Tefft, F. Griswold
Rogers, Henry H.	Smith, Rev. Cornelius B.	Tefft, Wm. E.
Rogers, Noah C.	Smith, William Alex.	Tesla, Nikola
Roosevelt, Charles H.	Smith, W. Wheeler	Thomas, T. G., M.D.
Roosevelt, W. Emlen	Smyth, Philip A.	Thomson, Giraud F.

Thompson, W. Prall	Van Winkle, Miss E. S.	Wicke, William
Thorne, W. V. S.	Vandervoort, W. L.	Wickes, Edward A.
Tiemann, Daniel F., 3d	Veit, Richard C.	Wickham, Delos O.
Tierney, Myles	Voorhis, Wm. W. L.	Weibusch, Chas F.
Tiffany, Louis C.		Williams, George G.
Tillinghast, W. H.	Wales, Salem H.	Williams, Richard H.
Titus, E., Jr.	Walker, William I.	Wills, Charles T.
Toel, William	Wallace, Lewis	Wills, Wm.
Tonnélé, John L.	Wallach, Antony	Wilmurt, Thos. A., Jr.
Toothe, William	Wardwell, Wm. T.	Wilson, George
Townsend, R. H. L.	Warner, Lucien C.	Wilson, John
Townsend, R. W.	Warren, W. R.	Wilson, Washington
Tracy, J. Evarts	Waterbury, John I.	Wing, John D.
Trevor, H. G.	Watson, Miss Emily A.	Winthrop, Egerton L.
Trevor, Mrs. John B.	Weatherbee, Mrs. E. H.	Witherbee, Frank S.
Turnure, Lawrence	Webb, W. H.	Wood, Mrs. Henry R.
Tuttle, Nathaniel	Weed, Benjamin	Woodward, F. F.
Twombly, H. McK.	Weed, Geo. E.	Wormser, Iisdor
	Weekes, John A.	Wray, Miss Cornelia S.
Ullmann, E. S.	Wehrhane, Chas.	Wright, Benjamin
	Wertheim, H. P.	Wright, Miss F. E.
Valentine, Mrs. Lawson	Westcott, Robert E.	Wurzburger, A.
Valentine, Wm. A., M.D.	Wetherbee, Chas. L.	
Van Brunt, Cornelius	Wetmore, Dr. John McE.	Youmans, Ephraim M.
Van Brunt, Hon. C. H.	Wheelock, Dr. W. E.	Young, Edward L.
Van Emburgh, D. B.	Wheelock, Geo. G., M.D.	Young, Reginald
Van Ingen, Edward H.	Wheelock, Wm. A.	
Van Norden, Warner	Whipple, L. Edmund	Zabriskie, Andrew C.
Van Pelt, G. S.	White, Horace	Zickel, S.
Van Santvoord, A.	Whitehead, Chas. E.	Zinsser, Aug.
Van Vleck, Joseph	Whitehouse, J. Henry	Zinsser, Wm., Jr.
Van Winkle, Edgar B.	Whitney, Alfred R.	Zollkoffer, O. F.



DECEASED ANNUAL MEMBERS,

1898.

Cox, Allyn	Hilyard, George D.	Rolston, Rosewell G.
Cruger, S. V. R.	Lyman, T. C.	Schwab, Hermann C.
Ewart, James M.	McGee, James	Toucey, J. M.
Gade, Henry	Packard, S. S.	Van Wickle, A. S.
Gillis, Chas. J.	Ranger, Louis	Ward, Mrs. Thomas

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### In Memoriam.

On the occasion of the Annual Meeting of the Trustees of the American Museum of Natural History, held February 14, 1898, the following minute was unanimously adopted; the Secretary was directed to record the same on the minutes, and present a copy thereof to the family of their deceased colleague, Daniel Jackson Steward:

*Resolved:* That the Trustees hereby record their deep sorrow for the loss of their associate and friend

#### DANIEL JACKSON STEWARD.

Mr. Steward was associated with the Institution since its inception, having been one of its incorporators, and subsequently its Second Vice-President, to which office he was elected in 1878.

His deep interest as a Trustee was enhanced by an inherent love for all branches of natural history. The department which received his closest study was that relating to conchology, and the gift of his superb cabinet of shells attests his love for this domain of nature.

Mr. Steward was always earnest and painstaking in his duties, so long as his health permitted his presence at the meetings of the Board and the Executive Committee, and although permanently disabled by illness, his great interest in the collections remained unchanged.

We gratefully record an acknowledgement of his generosity in the gift which bears his name, and we recognize in the combination of his artistic instincts and mental accomplishments, a character pre-eminent in these qualities.

We hereby extend to his family, the expression of our individual sympathy, recalling the consoling thought of his honorable and unblemished life.

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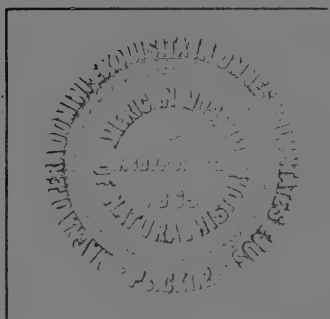


VIII

# American Museum of Natural History

CENTRAL PARK, NEW YORK CITY.

(74th Street and Central Park, West.)



ANNUAL REPORT OF THE PRESIDENT,

TREASURER'S REPORT

LIST OF ACCESSIONS,

ACT OF INCORPORATION,

CONSTITUTION,

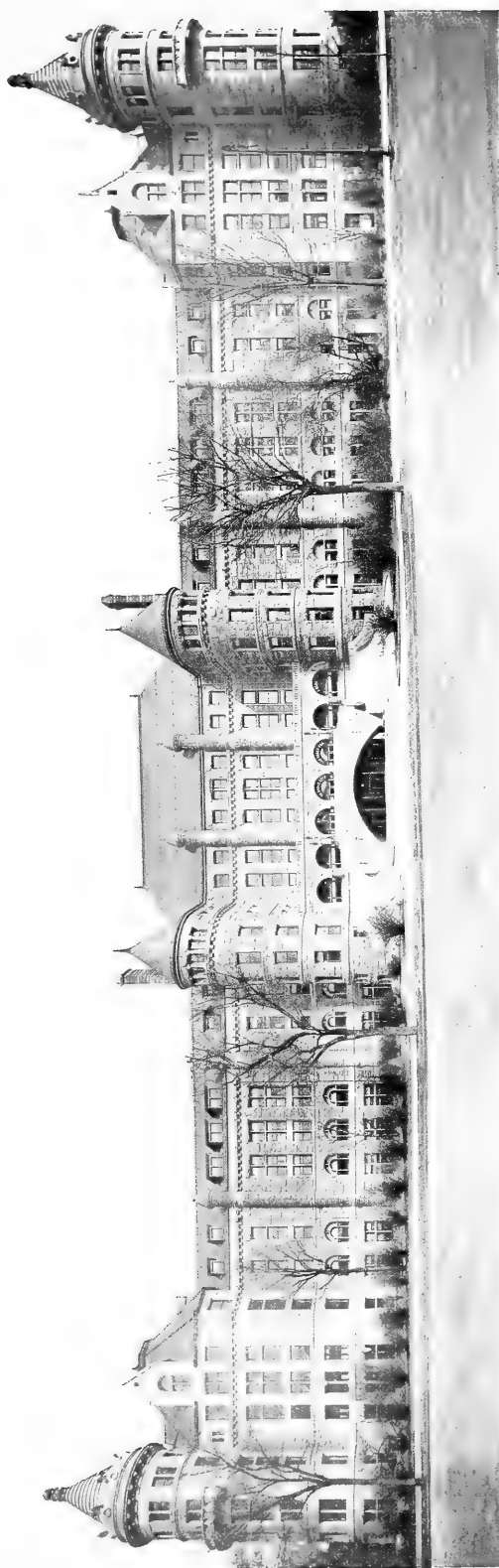
BY-LAWS AND LIST OF MEMBERS

FOR THE YEAR 1899.

PRINTED FOR THE MUSEUM







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AMERICAN MUSEUM OF NATURAL HISTORY  
South Front. 1900

Cady, Herz & See, Architects.



THE  
AMERICAN MUSEUM OF NATURAL HISTORY.



THE  
AMERICAN MUSEUM OF NATURAL  
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park, West.)

---

ANNUAL REPORT OF THE PRESIDENT,  
TREASURER'S REPORT, LIST OF ACCESSIONS,  
ACT OF INCORPORATION, CONSTITUTION,  
BY-LAWS AND LIST OF MEMBERS

FOR THE YEAR 1899.



NEW YORK:  
PRINTED FOR THE MUSEUM.

1900

WM. C. MARTIN PRINTING HOUSE  
NO. 111 JOHN STREET  
NEW YORK

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1900.

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MORRIS K. JESUP.	ANDREW H. GREEN.
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JOSEPH H. CHOATE.	WILLIAM C. WHITNEY.
*JAMES M. CONSTABLE.	ELBRIDGE T. GERRY.
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ALBERT S. BICKMORE.	A. D. JUILLIARD.
OSWALD OTTENDORFER.	FREDERICK E. HYDE.
PERCY R. PYNE.	

\* Deceased.

# OFFICERS AND COMMITTEES

FOR 1900.

---

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## First Vice-President.

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## Treasurer.

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## Assistant to the President.

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## Secretary and Assistant Treasurer.

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ANSON W. HARD.

CHARLES LANIER.

H. O. HAVEMEYER.

WILLIAM E. DODGE.

FREDERICK E. HYDE.

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\*JAMES M. CONSTABLE.

*The President ex-officio.*

\* Deceased.

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AND MARINE INVERTEBRATE ZOÖLOGY.

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L. P. GRATACAP, Ph.B., } Assistant Curators.  
Dr. EDMUND O. HOVEY, }

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JOHN ROWLEY, Taxidermist.

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Dr. O. P. HAY, }

DEPARTMENT OF ANTHROPOLOGY.

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Dr. FRANZ BOAS,  
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MARSHALL H. SAVILLE,  
Assistant Curator of the Archæological Division.

DEPARTMENT OF ENTOMOLOGY.

W. BEUTENMÜLLER, Curator.

LIBRARIAN.

A. WOODWARD, Ph.D.

SUPERINTENDENT OF BUILDING.

WILLIAM WALLACE.

## FORM OF BEQUEST.

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*I do hereby give and bequeath to "THE AMERICAN MUSEUM OF  
NATURAL HISTORY," of the City of New York,.....*

.....

.....



## THIRTY-FIRST ANNUAL REPORT.

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*To the Trustees and Members of the American Museum of Natural History:*

I take pleasure in presenting the following report of the operations of the Museum for the year closing December 31, 1899 :

FINANCES.—Your attention is invited to the Treasurer's report on pages 34, 35, 36 and 37. In response to a statement presented by me, showing the balances due on the purchase of collections, and the estimated deficit for maintaining the Museum during the year, the Trustees very generously subscribed the sum of \$68,500, as shown in detail in the Treasurer's report. I am gratified to record that the floating indebtedness of the Institution has been removed; the liberality of the Trustees has thus made it possible to extend its interests in the support of field work and the purchase of desirable material. The income of the Endowment fund has been depleted each year to make good the deficit in the cost of maintenance. From the time of opening the Museum to the close of this year \$241,283 have been diverted from this fund to make good the expense of maintaining the Museum in excess of the appropriations made by the city.

THE BOARD OF TRUSTEES.—At the annual meeting of the Board, held February 13th, Dr. Frederick E. Hyde was elected a Trustee, and subsequently made a member of the Executive Committee to serve for the term of five years.

On the closing page of this report will be found a resolution adopted by the Trustees in relation to the decease of our late associate, Cornelius Vanderbilt.

Mr. Vanderbilt was elected a Trustee in 1878, and actively served for eight years as a member of the Executive and Auditing

Committees. He was always zealous and punctilious in the performance of his duties as a Trustee, and generously coöperated in every project which would advance the interests of the Institution.

LEGISLATION.—Chapter 126 of the Laws of 1899, approved by the Governor March 23d last, authorizes the city to appropriate a further sum of \$40,000 for the maintenance of the Museum. I regret that it was not in the power of the Board of Estimate and Apportionment to grant an increase in the appropriation for the current year.

MEMBERSHIP.—Dr. Frederick E. Hyde, Mrs. John B. Trevor, Mr. John Belknap Marcou and Dr. Phillipe Marcou have been elected "Patrons." Mr. Robert S. Brewster became a "Fellow," and Messrs. James B. Ford, Morris Loeb, Grenville Lindall Winthrop, E. Dwight Church, Arthur Ryle, James Speyer, George C. Boldt, William L. Flanagan, August Belmont, James H. Hyde, J. Turner Atterbury, Norman Grant, Richard S. Lull, William R. Warren, Theodore Cooper and Mrs. Catharine L. Olmstead were elected "Life Members." The Museum has lost by death during the year, Cornelius Vanderbilt and Robert Bonner of its roll of "Patrons," and the following-named "Life Members": Theodore D. Howell, Francis P. Freeman, John King, James Low, John G. Moore, E. R. H. Lyman, Henry B. Plant, Fred F. Thompson, Charles E. Tilford, Albon W. Towne. The names of deceased annual members are also recorded at the close of the report.

The loss of annual members caused by death and resignation has been more than offset by new subscribers, and the year closes with an increase of seventy members.

JOHN B. TREVOR FUND.—It affords me pleasure to refer to the very generous gift of \$10,000, received from Mrs. John B. Trevor. With the consent and approval of the donor the sum was invested in securitites to be designated "The John B. Trevor Fund," the income of which is to be expended in the discretion of the Trustees.

BEQUEST.—The will of the late Charles E. Tilford provides that the Trustees shall ultimately receive a bequest of \$25,000.

ADDITIONS TO THE BUILDING.—Early in the year the favorable conditions in the cost of building encouraged the Trustees to consider that the time was opportune for the completion of the east and west wing corners and the new Lecture Hall, and that the unexpended balances from the several appropriations would be sufficient to meet the cost of this work. We were disappointed in our expectations, however, owing to the rapid increase in the cost of labor and the great advance in the cost of iron construction. These conditions compelled the abandonment of the first series of plans and the preparation of a scheme modified to meet the situation. Specifications were prepared for the completion and equipment of the new Lecture Hall only; the present hall being inadequate to meet the increasing demands of the public. The contract was awarded to Thomas Cockerill & Son, they being the lowest bidder; and I am assured that the Lecture Hall will be completed during May, 1900.

TRANSPORTATION.—It is a pleasure to acknowledge the courteous and liberal assistance accorded the Museum by the following railroad companies: The Central Pacific, the Union Pacific, the Wabash and Missouri Pacific lines, the Canadian Pacific, the Chicago & Northwestern, the Atchinson, Topeka & Santa Fé, the Denver & Rio Grande, the Mexican Central, the Internacional, and the Erie. These corporations have substantially aided the work of our field parties in the Western and Southwestern States, and in British Columbia.

Early in the year an invitation to visit the Museum was extended to the President of the United States of Mexico, in anticipation of his proposed tour of our country; the visit was deferred owing to the pressure of his official duties. Secretary of State Mariscal and suite subsequently visited the Museum on October 18th, and were received and entertained on behalf of the Board of Trustees.

ATTENDANCE.—The number of visitors from January 1st to December 31st was 458,451. The report is very gratifying, inasmuch as we were obliged to close the Museum on Tuesday and Saturday evenings between May and October, in order to

make many needed alterations and repairs to the steam and electric lighting plant.

During previous years no record was kept of the number of school children visiting the Museum. This class of visitors became very noticeable in the early months of the year, and a card system was adopted showing the name or number of the school, whether a public or private school, the grade of the class and number of visitors, and the name of the teacher in charge. Desiring to afford these pupils the largest use of the collections, I gave instructions that classes with their teachers should have free admission on every day of the week regardless of the closed days. The results have been very gratifying.

From the date of the first record, May 20th, to December 31st, 2,988 scholars have visited the halls to study the specimens under the supervision and instruction of their teachers; the latter it is fair to assume also profited largely by the knowledge acquired. More than half of these scholars came from this city and the remainder from Brooklyn, Newburgh, Whitestone and Staten Island, while fifteen cities and towns in New Jersey contributed 638 of the total number.

ACCESSIONS.—A detailed list of accessions is appended in the later pages of this report. Bradford's well-known oil painting of "The Polaris in the Ice at Thank God Harbor," was presented to the Trustees by C. P. Huntington, Esq., and Mrs. Robert Woodworth presented a marble bust of "Milton"; these gifts are placed in the public reading room of the Library. The Peary Arctic Club of this city has donated a number of valuable specimens collected during the year by Lieut. Robert E. Peary in the Arctic regions, and brought here on the return of the supply vessel sent North during the summer. The American Ethnological Society of this city has permanently deposited its library with the Museum. The library numbers 750 volumes and 270 pamphlets, mostly referring to Ethnology and Archæology.

EXPEDITIONS.—Each year's work of the Museum in the field of exploration develops the importance of its expeditions in securing valuable material. The following brief summary of the reports of

the Curators in this connection will give a general idea of the results of the several expeditions during the past year.

THE JESUP NORTH PACIFIC EXPEDITION.—Dr. Berthold Laufer continued his work on the Amoor and returned to Japan early in November. According to last reports he was awaiting the arrival of his collections, which are to be shipped from Japan to the Museum. His reports indicate that the results of his investigations are of great importance. Dr. Laufer investigated thoroughly the Aino and Gilyak of the Island of Saghalin, and later he visited the Gold and Gilyak tribes inhabiting the banks of the Amoor. On his journey down the river he discovered interesting archaeological remains. His collections illustrate the industries, customs and beliefs of the peoples he visited; he also secured much information relating to the native languages.

Mr. Harlan I. Smith spent five months on the coast of Washington and British Columbia continuing his investigations on the archaeology of that region. The most important results of his journey are the establishment of the southern limits of North Pacific culture and of the distribution of cairn burial on Vancouver Island. He made an extensive collection illustrating the archaeology of the Puget Sound region and of the interior of southern British Columbia, which is of great importance for a study of the distribution of the prehistoric tribes in that area.

Mr. George Hunt continued his work among the Kwakiutl tribes of northern Vancouver Island. He has sent an interesting collection of the ceremonial objects, tools and implements of that tribe, accompanied with full explanations.

Mr. James Teit visited the Lillooet tribe, and made a collection which shows the influence of the Coast tribes upon this people.

NORTH AMERICAN INDIAN RESEARCH.—A beginning has been made in the investigations on the Indian tribes of North America, with the special view of studying the vanishing customs of the Plains Indians. The results of these investigations are very encouraging, and it is to be hoped that the Museum may be able to continue and extend its work in this direction.

Through the generosity of Mr. C. P. Huntington an explorer was sent to California. The work was intrusted to Mr. Roland

B. Dixon, who investigated the Maidu Indians of northern California. The results of his work are an interesting collection of basketry, utensils and feather ornaments of these Indians, and a series of casts and photographs illustrating the type of people. Besides this, Mr. Dixon accumulated considerable material on the structure of the Maidu language and much ethnological information. In connection with the Huntington investigations in California an important collection of pottery of the Southwestern tribes was made by Mr. G. P. Winship.

A gift from Mrs. Morris K. Jesup enabled us to send another investigator to Indian Territory. Mr. Alfred L. Kroeber was charged with the investigation of the Arapaho Indians. He made a very important collection illustrating the ceremonials and the symbolism of the tribe which is of special value to this Museum. Mr. Kroeber's work is also of great scientific interest on account of the new information obtained in regard to the significance of decorative designs of the Arapaho. Mr. Kroeber also secured much linguistic material.

ESKIMO RESEARCH.—In 1897 a full list of desiderata and suggestions for enquiries was furnished to Capt. George Comer who was about to visit the west coast of Hudson Bay. Capt. Comer, in following out these suggestions, made an excellent collection illustrating the arts and customs of the Eskimo tribes which he visited at Chesterfield Inlet, Wager River and Southampton Island. The collection from the Southampton Island Eskimo is remarkable on account of the primitive character of the tribe, which has never been visited by whites and is still living in the stone age.

THE HYDE SOUTHWESTERN EXPEDITION.—The work of this expedition, which is entirely under the patronage of the Messrs. B. Talbot B. Hyde and F. E. Hyde, Jr., consisted in the further exploration of the ruins known as "Pueblo Bonito," in the Chaco Cañon, New Mexico; the exploration of several ancient burial sites near other ruins in the Chaco and adjoining cañons; the examination of ruins in the cañons, on the mesas, and in the cliffs, as part of a general survey of the archæology of the region included in the adjoining corners of Colorado, New Mexico, Utah

and Arizona. The Curator of the Department was in the field with this expedition for several weeks. The other members of the expedition for the season were Mr. F. E. Hyde, Jr., Mr. G. H. Pepper, Mr. Richard Wetherill, Prof. R. E. Dodge and Dr. A. Hrdlicka. To Professor Dodge was assigned the investigation of the geological and geographical conditions and a study of the geological evidence of the antiquity of the ruins with special reference to those in the Chaco Cañon. Dr. Hrdlicka was charged with the special work of securing human skeletons, and of making a study of the living Indians in the region, in order to obtain somatological data for comparison of the ancient with the modern peoples. Messrs. Pepper and Wetherill continued the special exploration of the ruins of Bonito, in which they have been so successfully engaged for the past three years. The Curator's time was devoted principally to a study of the facts relating to the antiquity of the ruins and to the cause of the desertion of this ancient pueblo by a once numerous and agricultural people, after so much labor had been expended in house building and in extensive irrigation. In addition to the very large collection of objects obtained by the parties attached to the expedition, there was also secured an exceedingly important collection from the ancient burial caves in Grand Gulch, the remains of a people evidently distinct from the builders of the ancient stone pueblos and cliff-houses.

THE PERUVIAN EXPEDITION.—The researches by Dr. Bandelier in Peru and Bolivia, of which mention has been made in past reports, have been continued during the year; a large shipment of specimens obtained from ancient sites in the vicinity of Lake Titicaca is now on its way to the Museum. This expedition was begun under the patronage of Mr. Henry Villard in July, 1892, and has since April, 1894, been continued by the Trustees of the Museum. The collection already received is very extensive, and illustrates the highest stage of civilization attained in prehistoric time in South America.

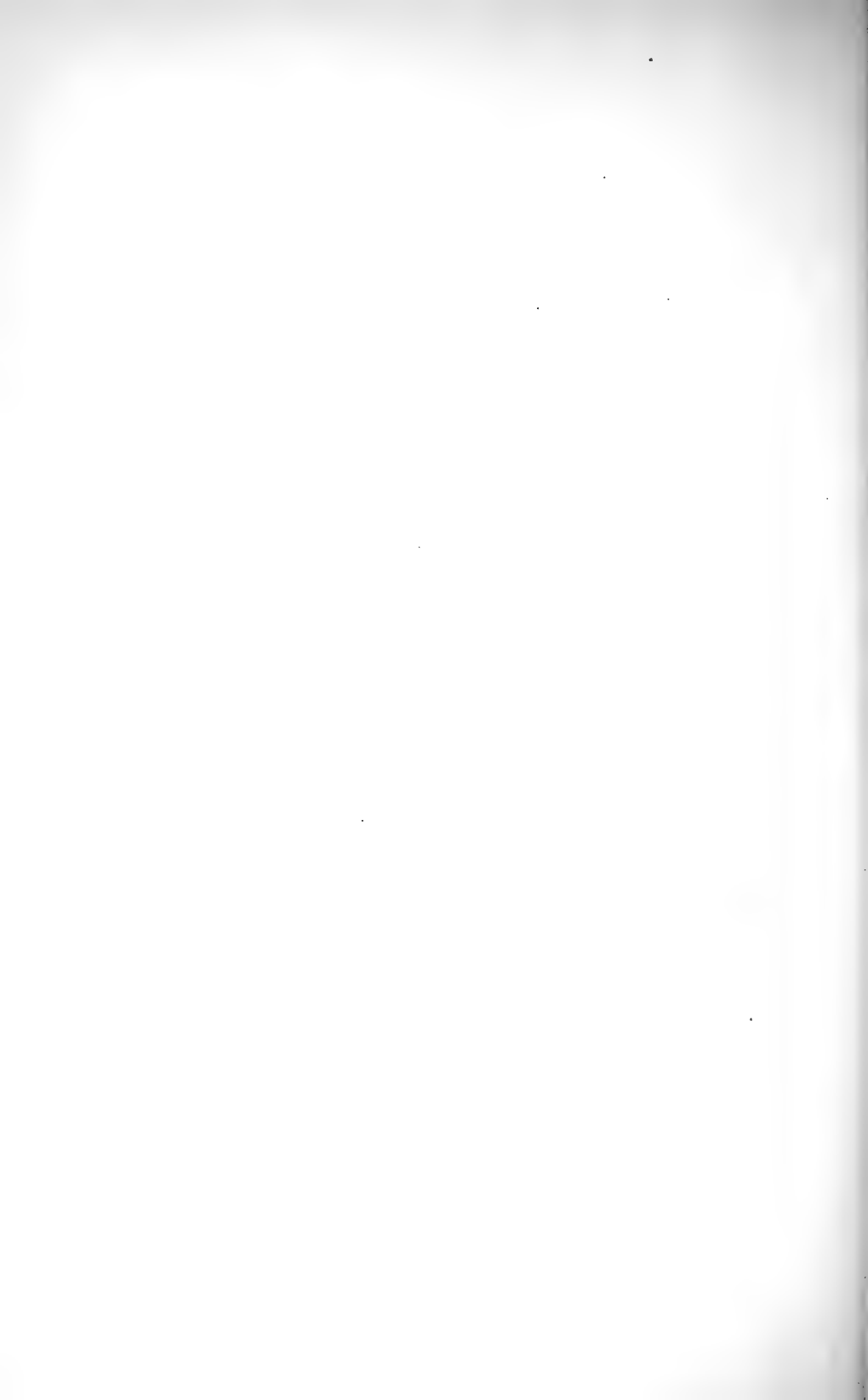
THE EXPLORATION OF THE TRENTON GRAVELS AND OF THE DELAWARE VALLEY.—This important research has been continued through the year by the generous patronage of Dr. F. E. Hyde. Mr. Ernest Volk has thus been able to continue his daily exam-

ination of the glacial gravel as it is removed by the railroad company, or of the underlying sand as it is dug away for the use of the potteries, or with his trowel to enlarge his trenches inch by inch. During this careful work numerous stone implements have been found *in situ* in what is admitted by several competent geologists to be the deposit made at the closing of the glacial period. He has also secured a portion of the scapula of a musk ox which was found in the sand layer underlying the true glacial gravel. On the first day of December last, Mr. Volk himself discovered and removed with his own hands a fragment of a human femur, which was *in situ* seven feet from the surface in the sand layer beneath the undisturbed glacial gravel, the true Trenton gravel of all geologists. Photographs and careful observations bearing on this most important discovery were made; and there seems to be no reason to doubt that this bone is as old as the deposit in which it was found. The bone is very white and chalky, and upon its surface can still be traced a number of striæ having the appearance of glacial scratches, like those on a highly polished pebble taken from the same layer a few feet distant. On December 6th Mr. Volk found three fragments of a portion of a human parietal in the talus about twenty-five feet from the spot where the femur was discovered *in situ*. These pieces of a human skull were lying on the recently fallen talus in such a position that it was evident they had been dislodged from the sand layer under the gravel. Like the femur, they are chalky, striated and slightly stained by iron derived from the gravel. The three pieces fit together and form part of a parietal bone. Mr. Volk has also discovered in one of his deep trenches, at about six feet from the surface, fragmentary remains of portions of three skeletons lying near together and below an unbroken, unmixed thin stratum of sand. The geological conditions relating to this discovery are not yet fully understood; but that the age of these skeletons is very great there can be no doubt. Mr. Volk has also been able to carry on an exploration of an Indian site on the lowlands near Trenton, from which he has obtained several skeletons in good condition, as well as a large quantity of artifacts of various kinds. It is hoped that Mr. Volk's employment in archæological researches in various parts of the upper Delaware valley may be continued.





HALL, CONTAINING LOUBAT COLLECTION, ILLUSTRATING THE PRE-HISTORIC SCULPTURES OF MEXICO AND CENTRAL AMERICA



ARCHÆOLOGICAL EXPLORATIONS IN NEW YORK.—By the assistance of Mr. Theodore Cooper and Mr. William R. Warren, several important explorations have been made within the city limits, at Croton Neck and at a few other places in the State. These explorations were intrusted mainly to Mr. M. Raymond Harrington. Mr. M. H. Saville made an exploration of an Indian site in Schoharie County, where he obtained a number of stone implements ; but the explorations could not be carried on to the extent desired. In Pelham Park, on the shores of Pelham Bay, Mr. Harrington was successful in the exploration of an old Indian village site and burial-place, from which he obtained several Indian skeletons and many bones of animals which had been used for food ; also pottery, stone implements, and various other objects. At Croton Neck there is a large artificial embankment connected with an Indian village site and burial-place. Here, by permission of the brick company owning the land, Mr. Harrington made extensive explorations. He found a number of skeletons of Indians, with many implements of stone and bone, considerable Indian pottery, and a few ornaments of Indian make. He secured also several objects which the Indians had obtained from the early settlers, showing that this site was occupied by the Indians until after the settlement of New York. Mr. Harrington also explored, in whole or in part, several shell-heaps. He examined, besides, a number of Indian sites in Westchester and Rockland counties and on Long Island. Altogether these explorations and examinations have added important and authentic material to our yet meagre collection illustrating the Indian occupation of New York and its vicinity. They have also proved that much can still be found if no time is lost in continuing the research.

RESEARCH IN FLORIDA.—In the spring of 1899, thanks to the kindness of Mrs. Esther Herrman, the Curator of the Department of Anthropology was able to give a few weeks to archæological and geological researches about Tampa Bay, Florida. By the assistance of Capt. B. Coe, who kindly put his steamer and dredges at the disposal of the Curator, the latter was able to have pass under his eyes a large amount of the phosphate material dredged from the bottom of the Alafia River. Brought up with the bones

of many extinct animals of late tertiary times, were several implements made of the bones of a large deer, and a few chips of chalcedony. While the discovery of these implements does not prove any geological antiquity,—since they may have been made from a still existing elk and have been washed into the river,—yet they are of interest in connection with the considerable number of bones and teeth of extinct animals which were obtained.

The material received from the special expeditions, to which reference has been made, the several exchanges and important collections purchased, and the numerous gifts of friends, have resulted in the greatest number of accessions ever received by the department in a single year. Over 16,000 entries, including several times that number of specimens, have been made during the year in the catalogue of the Department of Anthropology.

The past five years have exemplified what can be done in gradually forming in the various divisions of anthropology, collections that shall be worthy of this great Museum. Already the collections in archæology, ethnology and physical anthropology have placed the Museum in the very front rank in anthropology, while in several of its sections it is far in advance of all other museums. In other sections, however, it is still far behind in presenting the history of man and his works. While we should not curtail in the slightest degree any of the special work which, thanks to the patrons of the Museum, the department is now so successfully prosecuting, we must hope and strive for the means of doing similar work in other regions. Now is the time to make our utmost efforts to collect in various fields. Every year is making both archæological and ethnological research more difficult, and delay in the work means less results at greater cost. The archæology and ethnology of a large portion of America is inadequately or not at all represented in our collections, while our exhibits from Europe, Asia, Africa, Australia, and many of the Pacific Islands are very meagre. From all these regions we should have large collections, and for this work we must hope that special patrons will come to the assistance of the Museum.

Three expeditions were conducted by the Department of Vertebrate Palæontology as follows :

1. DINOSAURS.—The third expedition for Dinosaurs was conducted by Mr. Walter Granger under the direction of the Curator, in the Jurassic beds of Wyoming. Continued explorations of the famous "Bone Cabin Quarry" resulted in the discovery of 131 specimens of Dinosaurs, many of which were new to our collection. Nearby was found nearly one-half the skeleton of the largest Dinosaur known, the *Brontosaurus*, an extremely valuable accession. The party also secured part of the skeleton of a fossil crocodile and of an *Ichthyosaurus*. Dr. W. D. Matthew rendered valuable assistance to this expedition. The Curator spent two weeks in the supervision of this work in the field. Prof. R. S. Lull, of Amherst, coöperated ably as a volunteer, and has since been made a life member of the Museum.

2. MAMMALS.—The eighth expedition for fossil mammals was conducted by Mr. J. W. Gidley in northern Texas. These beds have been very little explored, and we secured a remarkable collection including five more or less complete skeletons of the fossil horse, the last representative of its race, greatly needed to illustrate the evolution of horses in America. Also the fore limb of a Mammoth, a considerable part of the skeleton and a complete skull of a Mastodon, all beautiful exhibition material.

3. PATAGONIA.—The Patagonian Expedition was continued by Mr. Barnum Brown, who has reported frequently upon his very successful work. Fourteen boxes of fossils have been received at the Museum, and Mr. Brown has been directed to return to work this material up and receive more specific instructions for his future work. He reports a fine lot of material, which will supplement our purchase of the Cope Pampean Collection in giving us the history of the life upon our sister continent.

ZOOLOGICAL EXPEDITIONS.—The Museum has received during the year important collections from the James M. Constable Expedition to the Northwest Territory and Arctic America, conducted by Mr. A. J. Stone, including a fine series of specimens of the Arctic White Sheep, and a number of specimens of a new species

of Caribou, as well as many small mammals, several of which proved new to science. Not less important are the geographical results of Mr. Stone's work, and the large amount of information he obtained respecting the distribution and habits of the large mammals of the far North. It is hoped that means will be found for continuing Mr. Stone's work during the coming year.

Explorations in the United States of Colombia, conducted by Mr. Herbert H. Smith, and made practicable by the support afforded the Expedition by the President, have resulted in the addition of one of the finest and largest collections of mammals ever collected at any single locality in South America, and a very large and exceedingly valuable collection of birds. Provision has been made for the continuation of the work for another year.

Arrangements have also been made for extensive zoölogical work during the next two years in Eastern Siberia, an experienced zoölogical collector having been detailed to accompany the field party of the Jesup North Pacific Expedition assigned to this section of the work.

DEPARTMENT OF ANTHROPOLOGY.—In the Department of Anthropology a large amount of work has been accomplished during the year, both in the field and in the Museum. The several expeditions have brought in a mass of material collected by trained archæologists and ethnologists. The specimens thus collected are of great scientific importance, as every object is authentic, illustrates some particular phase of the status of culture of extinct or present tribes, and furnishes the means of comparative study and the determination of relationships of the various peoples. The illustration of the life history of the various groups of man is thus constantly being developed in the Museum, as collection after collection is arranged and brought into its proper place in the exhibition halls.

During the year the north ethnological hall (No. 106) has been arranged so as to show in an instructive manner the great mass of material illustrating the archæology and ethnology of the northwestern portion of America. The cases in the western part

of the hall are filled with collections secured by the Jesup North Pacific Expedition on the Island of Vancouver and in British Columbia and Alaska; the other collections from the same region are so arranged as to particularly illustrate different subjects pertaining to the manufactures, arts, ceremonies and mode of life of the people. This hall was re-opened to the public on Thanksgiving Day.

In December the arrangement of the west hall (No. 408) on the fourth floor was completed, and it was immediately afterward thrown open to the public. This hall is devoted to the archæology of Mexico and Central America, and contains the instructive and imposing series of casts presenting in fac-simile the great stelæ, altars and other large stone sculptures, and many slabs with finely carved bas-reliefs. The numerous hieroglyphic inscriptions on these sculptured stones, the representations of mythical animals and the symbolic carvings, furnish a mass of material for the study of the ancient civilizations of Mexico and Central America which is unsurpassed in any museum. Added to this are many original specimens of sculptured stones, of pottery and of ornaments, together with a remarkable collection of carvings and ornaments of jadeite and an exhibit of copper objects. To further facilitate the study of the Mexican pictograph writing and the Maya hieroglyphs, there are here placed on exhibition reproductions of a number of ancient Mexican and Maya codices. The student is thus provided in this single hall with materials for study which, before this collection was brought together, he could not have seen except by traveling long distances in America and Europe in order to find a sculpture here and a codex there. In this hall he can compare the objects directly one with another as he carries on his investigations. It is unquestionably an unequaled exhibit for the encouragement of research,—one that will naturally lead to the further study of ancient American civilizations. As the difficulty of securing such material increases from year to year, the value of such a collection is correspondingly enhanced. We are greatly indebted to the Duke of Loubat, the generous patron who has made it possible for the Museum to make this unique exhibit,—the most important collection in existence for the study of the ancient civilizations of Mexico and Central America.

The west hall (No. 308) on the third floor, containing the South American exhibits, and the west ethnological hall (No. 109) on the first floor, in which are arranged the collections relating to the Indian tribes of North America and to the Eskimo, are in a forward state of preparation for final opening. The cases in the west hall (No. 210) on the second floor are still in process of construction. In this hall will be placed the collections illustrating the archæology and ethnology of the pueblo peoples of the Southwest, the archæological collections from the mounds, and from prehistoric village sites and burial-places, in the central and eastern United States.

DEPARTMENT OF GEOLOGY AND ASSOCIATED DEPARTMENTS.—The Curator's report shows that a large amount of work has been done in this department.

In the geological hall a new method of installation was tried in one of the cases. The general appearance of small dull-colored geological specimens set in white cardboard trays with white labels is not pleasing, and so experiments were begun with the purpose of improving it. In the experimental case prepared during the year by Dr. Hovey, the cardboard trays were dispensed with and the specimens placed on light buff card tablets with the labels of the same color. Black wooden strips served to break up the shelf into agreeable areas. The card tablets were made to exactly cover the shelves. It was then decided to experiment with the French gray color in the adjoining wall and desk cases. In this instance the card tablets used were of uniform size with the ordinary trays, an arrangement which makes them interchangeable and avoids the frequent disarrangement of a large area of specimens.

The two new desk cases of a larger pattern, constructed for the alcoves in the palæontological hall, provided room for an expansion and better display of their contents. This treatment should be adopted in all the alcoves; the old and unsatisfactory cases should be discarded.

Much has been done in the way of labeling in other parts of the collection. Besides the rearrangement of the specimens as stated, 2,435 new labels have been added. Much attention has been



given, during the year, in working over the collections of fossils, obtained in the past by donation, exchange and purchase, but stored for lack of case room.

The cataloguing of the type specimens in this hall has steadily progressed, and it is estimated that the work will extend over the coming two years.

Space has been provided for the expansion of the Mineral collection by the removal of the alcoholic specimens to a case in the vestibule of the fifth floor, where they are stored pending their permanent installation elsewhere.

No important additions have been made to the collection of Gems, with the exception of a very fine pearl and an ounce of Klondike gold nuggets.

The Curator strongly recommends the formation of a collection of month or birth stones, mottoes, regard and other sentimental series, as a popular supplement to the Gem collection. Another series pertaining to religion could be added. These series would illustrate the sentimental use to which gems and gem stones have been put by different nations and religions at different periods of history, and would present a feature of general and educational interest.

A large portion of the collection of Shells has been removed from the central hall to the main hall of the fifth floor. All of the D. Jackson Steward collection was thus removed and placed in five of the upright cases and four desk cases. The collection has been arranged on sloping shelves covered with dark-green cloth. This forms a background of dark color, which throws the varied hues of the shells into stronger relief.

The principal and most notable accession is the Terrell Collection of Fossil Fishes from Ohio, which was very kindly donated by William E. Dodge, Esq.

Three important meteorites and two fine slabs of polished spheroidal granite from Finland were added by purchase. A showy collection of minerals was also purchased with funds donated for the purpose by Miss Matilda W. Bruce, and a collection of characteristic minerals of New York was presented by Mr. Ernest Schnernikow, of this city.

THE DEPARTMENT OF VERTEBRATE ZOÖLOGY has received 1,108 mammals, 3,139 birds, about 1,200 reptiles and 23 fishes. The most important additions have been received from the Jesup and Constable expeditions, and from Colonel Nicolas Pike, who has kindly presented to the Museum his large collection of New York reptiles. We have also received a number of valuable specimens in the flesh from the New York Zoölogical Park and from the Central Park Menagerie. The accessions greatly exceed those of any recent year, and include not only a large amount of material for exhibition, but many mammals from tropical and arctic America wholly new to science. About forty mammals, mostly large specimens, have been added to the exhibition series. These include a number of rare African Antelopes, and also Deer, Peccaries, and other mammals from South America. Six groups for the collection of New York Mammals have been completed and two others remodeled for this collection. There are now fourteen of these groups finished and on exhibition, and work on the others is steadily progressing.

About one hundred birds have been added to the exhibition collection, and also several new bird groups, including as the most notable the large Brown Pelican group. The "Local Collection of Birds," which includes the species found within fifty miles of New York City, has been installed and forms one of the most instructive features of the department. Besides representing nearly all of the birds found in this immediate region, there are special cases devoted to the birds found here at particular seasons, the specimens being changed from month to month in order to show just what birds are present with us at any given season of the year. This arrangement proves very serviceable to local bird students, who thus have only a few specimens to pass in review in their search for any particular species. Considerable material has been gathered for additional bird groups, and several thousand specimens of birds have been received from South America, which furnish many desirable species for mounting.

In the DEPARTMENT OF VERTEBRATE PALEONTOLOGY, 1899 has been a notable year, especially in the munificent gift of the Cope Collection of North American Fishes, Amphibians and Rep-





tiles by the President, and of the Cope Collection of Pampean Mammals, by Messrs. Havemeyer, Dodge, James, Iselin, Constable and Osborn. The acquisition of these collections connects the Palæozoic with the Age of Man and the Department of Anthropology.

We greatly regret to record the resignation of Dr. J. L. Wortman, who has served the Department since its inception, with great care, ability and energy. His untiring devotion to the field work, especially in the leadership of all parties to the Rocky Mountain regions between 1890 and 1898 inclusive, is shown in the unrivalled collection now on exhibition in the Tertiary Hall, and also in the rich study series reserved in the Department. The Curator takes great pleasure in acknowledging this splendid service. A special chart placed in the Exhibition Hall, showing the various Museum expeditions in which Dr. Wortman had charge of the field parties, will constitute a permanent record of his services. Dr. Wortman's resignation has led to the promotion of Dr. W. D. Matthew to the First Assistant Curatorship, and to the call of Dr. O. P. Hay from Washington as Second Assistant Curator. The Reptile field work has been placed in the hands of Mr. Walter Granger, and the mammal field work in charge of Mr. J. W. Gidley.

In previous reports the importance of exchanges with foreign museums has been dwelt upon, and it is gratifying to us, that at last this branch of our work is well under way. During the past year we have received valuable collections from the following institutions:

From the Royal Saxon Geological Survey, 29 skeletons of Amphibians.

From the Museum of the Kingdom of Bavaria, Prag, casts of 20 fossil vertebrates.

From the Museum of Natural History, Lyons, casts of 3 and original specimens of 10 species of fossil mammals.

From the Museum of Palæontology, Paris, casts of 5 specimens of fossil mammals. (Second shipment).

From the Museum of the University of Lyons, 47 specimens of fossil mammals. Very valuable and interesting.

From the Royal Bavarian Museum, Munich, casts of 7 specimens of fossil vertebrates.

All of these specimens will be of great value to our Exhibition Hall. In return we have sent out collections which are highly appreciated and will carry the name and work of the Museum abroad.

Steady progress has been made in the Exhibition Hall. The Curator especially calls attention to the mammoth sea lizard skeleton and seven complete limbs and a number of other specimens of Dinosaurs; also to a beautiful slab of rock from Colorado, containing the skulls and skeletons of five fossil mammals, making a rare and beautiful exhibit; also finally to many new smaller installations.

Photography has become of increased importance both in connection with exhibition and publication. We have now developed an almost perfect system of photography. Our field negatives are systematically arranged in large albums, and the negatives duly numbered as the permanent property of the Museum. Enlargements are used in the cases showing the process of discovery and excavation of the specimens in the field, and photographs are used in connection with descriptive labels to illustrate typical specimens in the several departments.

DEPARTMENT OF ENTOMOLOGY.—The Hoffman collection of South American and Indian Butterflies has been placed on exhibition. The Rev. Dr. Hoffman has donated 300 additional specimens during the year.

The Local Collection of Insects has been transferred from the north wing to the gallery of the main building (No. 304). Over 5,000 specimens have been added to the collection, which now contains about 75,000 specimens. About 2,000 more are ready to be added as soon as the species can be identified. As it stands at present, lacking the complete life histories of the insects, the collection leaves much to be desired both from the scientific and educational standpoints. In the east wing (No. 302) about 500 new specimens have been placed on exhibition. The important study collection of Beetles is being assorted and properly arranged. All the collections have been examined and poisoned, to insure

their safety from destructive influences. About 1,000 specimens have been obtained through work in the field. The entomological collections will shortly be installed in more permanent quarters.

**LIBRARY.**—The librarian reports accessions during the year equal to 1,841 volumes. This is only about a third of what was received last year. The total number of volumes now in the Library is 43,532.

A partial list of the numbers wanted to complete the serial publications of the various geological surveys and scientific societies has been distributed to the State libraries and geological surveys. The results obtained have been very satisfactory.

The work of incorporating the Marcou library with the rest of the library is now well advanced. Besides its great value as a whole, this accession fills many existing gaps in serial publications which we already have.

**DEPARTMENT OF PUBLIC INSTRUCTION.**—Under the auspices of the State Superintendent of Public Instruction, Prof. A. S. Bickmore, the Curator in charge of this department, has delivered to the teachers of the public schools of the greater city of New York the usual courses of lectures. Professor Bickmore has also given lectures on holidays, as provided in the contract between the Museum and the State Superintendent of Public Instruction, Hon. Charles R. Skinner.

Two courses of four lectures each were delivered by Professor Bickmore to the members of the Museum. The free public lectures given under the auspices of the Board of Education have been attended by crowded audiences. Several hundred persons were unable to gain admission at each lecture. The new lecture hall, now nearing completion, will provide much additional space, and will obviate the discomfort of crowded audiences.

Several other courses of lectures were delivered under the auspices of Columbia University and other institutions. These are noted in the appended list.

*Report of the President.*

## LECTURES TO THE TEACHERS OF THE PUBLIC SCHOOLS

BY PROF. ALBERT S. BICKMORE.

*Spring Course, 1899.*

- Jan. 21, 28.—Newfoundland and Labrador.  
 Feb. 4, 11.—Gulf and River of St. Lawrence.  
     18, 25.—Lakes Ontario and Erie.  
 Mar. 4, 11.—Lakes Huron and Superior.  
     18, 25.—Central California—San Francisco and Yosemite Valley.

*Autumn Course, 1899.*

- Oct. 14, 21.—The Philippines—Manila and the Tagals.  
     28, } —The Philippines—The Visayans and Sulus.  
 Nov. 4, }  
     11, 18.—The Hawaiian Islands—Honolulu.  
     25, } —The Hawaiian Islands—Hawaii.  
 Dec. 2, }  
     9, 16.—Southwestern Alaska and Klondike.

*Holiday Course, 1899.*

- New Year's Day.—Jamaica and Porto Rico.  
 Washington's Birthday.—Russia—St. Petersburg and Moscow.  
 Thanksgiving Day.—The Philippines—Luzon and Manila.  
 Christmas.—The Philippines—The Visayans and Sulus.

## MEMBERSHIP COURSE—PROF. ALBERT S. BICKMORE.

*Spring Course.*

- Feb. 16.—Newfoundland and Labrador.  
     23.—Gulf and River of St. Lawrence.  
 Mar. 2.—The Great Lakes.  
     9.—Central California—San Francisco and Yosemite Valley.

*Autumn Course.*

- Dec. 7.—The Philippines—Manila and the Tagals.  
     14.—The Philippines—The Visayans and Sulus.  
     21.—The Hawaiian Islands—Honolulu.  
     28.—The Hawaiian Islands—Kilauea and Haleakala.

## COLUMBIA UNIVERSITY COURSE.

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|---|-------------------------|
| Jan. 7.—The Geography and Geology of the Great Lakes.....   | } Prof. R. S. Woodward. |
| “ 14.—The Geodesy and Hydrography of the Great Lakes.....   |                         |
| “ 21.—The Climatology and Commerce of the Great Lakes.....  |                         |
| “ 28.—Boiling and Freezing.....   | Prof. M. I. Pupin.      |
| Feb. 4.—The Transmission of Light in Crystals.....  | Prof. Alfred J. Moses.  |
| “ 11.—The Characters of Minerals in Rock Sections.....  | Dr. Lea McI. Luquer.    |
| “ 18.—The Methods Employed in the Investigation of Minerals, Especially Their Application to the Identification of Species. | Prof. S. L. Penfield.   |
| “ 25.—Testing Minerals.....   | Prof. Alfred J. Moses.  |
| Mar. 4.—The Newer Gold Regions of the West. Cripple Creek, Col.; Mercur, Utah; The Black Hills, S. D.; The Yukon Basin.     | Prof. J. F. Kemp.       |
| Mar. 11.—Gold and Silver Mines of Montana.....  | Mr. Walter H. Weed.     |
| “ 18.—Clay and Its Uses.....  | Dr. Heinrich Ries.      |
| “ 25.—The Geology of Petroleum.....   | Dr. David T. Day.       |



- |  |   |                           |
|--|---|---------------------------|
| Dec. 2.—Down the Cañons of the Colorado River with Major Powel, with Geological Observations by the Way..  | } | Mr. George Wharton James. |
| “ 9.—The Dynamic Geology of the Grand Cañon Region and a Descent from the “Rim” to the River on all the Trails.....  |   |                           |
| “ 16.—The Painted Desert and Its Surroundings. Including the San Francisco Mountains, the Lava Flows of Northern Arizona, the Cañon of the Colorado Chiquito, the Petrified Forest, etc..... |   |                           |
| “ 23.—The Mesas of Acoma, Zuni and Moki, with Indian Legends of Awatobi, Tai-yo-al-a-ni, Katzimo, Cibolleta and Mount San Mateo.....   |   |                           |
| “ 30.—The Cañons of the Cliff Dwellers, De Chelly, Del Muerto, Colorado Chiquito, Walnut, Havasu and Shinumo.....  |   |                           |

SATURDAY AFTERNOON COURSE BY THE STAFF OF THE MUSEUM.

- Jan. 7.—An Exploration for Dinosaurs in the Rocky Mountain Plateau Region.....Dr. J. L. Wortman.
- “ 14.—A Hunt for Fossil Camels and Horses in Kansas and Colorado.  
Dr. W. D. Matthew.
- “ 21.—The Bird Rocks of the Gulf of St. Lawrence..Mr. Frank M. Chapman.
- “ 28.—Explorations of Zapotecan Tombs of Southern Mexico.  
Mr. H. H. Saville.
- Feb. 4.—The Jesup North Pacific Expedition: Archæological Exploration in British Columbia.....Mr. Harlan I. Smith.
- “ 11.—The Jesup North Pacific Expedition: The Indian Tribes of the State of Washington.....Dr. L. Farrand.
- “ 18.—Rocks of the State of New York as Illustrated in the Museum.  
Mr. L. P. Gratacap.
- Mar. 4.—The Squirrels of North America.....Dr. J. A. Allen.
- Feb. 25.—A Collecting Trip in Europe.....Dr. E. O. Hovey.
- Mar. 11.—The Life Histories of Butterflies of the Vicinity of New York.  
Mr. Wm. Beutenmüller.
- “ 18.—The Hyde Expedition: Exploration of the Ruins of the Pueblo of Bonito, New Mexico.....Mr. George H. Pepper.
- “ 25.—Peoples of Asia: The Philippines to Japan..Prof. Albert S. Bickmore.

BOARD OF EDUCATION LECTURES.

- Jan. 10.—Picturesque Sweden.....Mrs. J. H. Gore.
- “ 17.—Within the Arctic Circle.....Prof. J. H. Gore.
- “ 24.—England.....Mr. Wm. Freeland.
- “ 31.—Andreas Hofer and the Tyrol.....Mr. W. D. McCrackan.
- Feb. 7.—The Rhine and the Black Forest.....Prof. H. E. Northrop.
- “ 14.—Glimpses of Quaint Old Holland: Its People and Customs.  
Mr. Myers R. Jones.
- “ 21.—Modern Greece.....Mr. J. P. Leotsakos.
- “ 28.—Among the People of the Balkans... Mrs. Emma Paddock Telford.
- Mar. 7.—The National Yellowstone Park.....Mr. John Hutchison.
- “ 14.—The Yosemite Valley.....Miss Mary V. Worstell.
- “ 21.—Colorado and the Grand Cañon.....Mr. Th. Douglas.
- “ 28.—Cuba: Havana and Santiago.....Mr. Walter P. Terry.

- Apr. 4.—North Atlantic Ocean : The Bermudas.....Mr. H. L. Bridgman.  
 " 11.—The West Indies.....Mr. George Donaldson.  
 " 18.—Jamaica and Porto Rico.....Mr. F. S. Dellenbaugh.  
 " 25.—Hawaii : Our Pacific Paradise.....Mr. R. S. Dawson.  
 Oct. 10.—Porto Rico.....Miss Anne Rhodes.  
 " 17.—Naval Gunnery in the Spanish-American War. Lieut. G. L. Carden.  
 " 24.—Life in the Philippines. Mr. Fritze Andreae and Wm. H. Reeves, Jr.  
 " 31.—Paris and Her Suburbs..... } Mr. H. E. Northrop.  
 Nov. 7.—Paris and Her Suburbs..... }  
 " 14.—La Belle France.....Mr. R. S. Dawson.  
 " 21.—Holland.....Mr. W. E. Griffis.  
 " 28.—Venice.....Mr. Jesse L. Hurlbut.  
 Dec. 5.—Finland.....Mr. H. Montague Bonner.  
 " 12.—The Transvaal.....Dr. John C. Bowker.

## THE NEW YORK ZOÖLOGICAL SOCIETY.

- Jan. 12.—The Zoölogical Parks of Europe and the New Zoölogical Park of New York City.....Prof. Henry F. Osborn.

## THE NEW YORK BOTANICAL GARDEN.

- Apr. 13.—The Royal Botanical Gardens at Kew, England.  
 Prof. Lucien M. Underwood.

## THE LINNÆAN SOCIETY OF NEW YORK CITY.

- Jan. 19.—A Naturalist in Florida.....Mr. Frank M. Chapman.  
 " 26.—A Naturalist in Labrador.....Dr. Robert T. Morris.  
 Feb. 2.—A Naturalist on the Pacific Coast.....Dr. Bashford Dean.  
 " 9.—A Naturalist in Wyoming.....Mr. Ernest Seton Thompson.

- Apr. 19. }  
 " 20. } Sixth Annual Reception of the New York Academy of Sciences.

- Mar. 23.—Second Annual Meeting of the Audubon Society of the State of New York.

## ATTENDANCE AT LECTURES.

Teachers' Lectures (Saturday, A. M.)—January 21st to December 16th, 1899.....	13,525
Holiday Lectures—January 2d to December 25th, 1899.....	3,391
Saturday Evening Lectures (Columbia University)—January 7th to December 30th, 1899.....	5,371
Botanical Lecture—April 13th, 1899.....	420
Linnæan Society Lectures—January 19th to February 9th, 1899.....	2,658
Membership Lectures—February 16th to December 28, 1899.....	4,991
New York Zoölogical Society Lecture—January 12th, 1899.....	460
Board of Education Lectures—January 10th to December 12th, 1899..	32,191
Saturday Afternoon Lectures (Curators' Course)—January 7th to March 25th, 1899.....	3,042
	<u>66,049</u>

PUBLICATIONS.—The publications of the Museum issued in the past year greatly exceed those of 1898, and include the following : Vol. XII of the Bulletin, consisting of pages i-xii, 1-342, with 14 plates and 102 text figures ; Part II of Volume XI of the Bulletin, pages 73-188 ; Parts IV and V of Volume I of the Memoirs, pages 167-214, with plates xxi-xxviii, and 26 text figures ; Parts

III and IV of Volume II of the Memoirs, pages 129-392, with plates xiii-xx and 315 text figures; Part I of Volume III of the Memoirs, consisting of 228 pages, with 4 plates, and 291 text figures (still in press, though nearly completed). The list of articles published in 1899, arranged by departments, is as follows:

DEPARTMENT OF INVERTEBRATE PALÆONTOLOGY.

Observations on some "Mud Flow" Markings on Rocks from near Albany, N. Y. By R. P. Whitfield. (Bull. XII, pp. 183-188, 3 text figures.)

Note on a Calcite Group from Bisbee, Arizona. By E. O. Hovey. (Bull. XII, pp. 189-190, pl. viii.)

Notice of two very large Lobsters in the Collection of the American Museum of Natural History. By R. P. Whitfield. (Bull. XII, pp. 191-194, pl. ix.)

Catalogue of the Types and Figured Specimens in the Palæontological Collection of the Geological Department, American Museum of Natural History. By R. P. Whitfield, assisted by E. O. Hovey. (Bull. XI, pp. 73-188.)

DEPARTMENT OF VERTEBRATE ZOOLOGY.

On Mammals from the Northwest Territory, collected by Mr. A. J. Stone. By J. A. Allen. (Bull. XII, pp. 1-10.)

Descriptions of Five New American Rodents. By J. A. Allen. (Bull. XII, pp. 11-18.)

Descriptions of Three New Squirrels from South America. By E. W. Nelson. (Bull. XII, pp. 77-80, 1 text figure.)

Descriptions of Five Apparently New Birds from Venezuela. By Frank M. Chapman. (Bull. XII, pp. 153-156.)

Descriptions of Three New Free-Tailed Bats. By Gerrit S. Miller, Jr. (Bull. XII, pp. 173-181, 3 text figures.)

New Rodents from Colombia and Venezuela. By J. A. Allen. (Bull. XII, pp. 195-218.)

Report on Birds Received through the Peary Expeditions to Greenland. By Frank M. Chapman. (Bull. XII, pp. 219-244, 8 text figures.)

History and Character of the Family Natalidæ. By Gerrit S. Miller, Jr. (Bull. XII, pp. 245-254, pl. x.)

Description of Two New Subspecies of *Colymbus dominicus* Linn. By Frank M. Chapman. (Bull. XII, pp. 255, 256, 1 text figure.)

The Generic Names *Echinys* and *Loncheres*. By J. A. Allen. (Bull. XII, pp. 257-264.)

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

A Provisional Classification of the Fresh-Water Tertiary of the West. By W. D. Matthew. (Bull. XII, pp. 19-76.)

The Ancestry of Certain Members of the Canidæ, the Viverridæ, and Procyonidæ. By J. L. Wortman and W. D. Matthew. (Bull. XII, pp. 109-138.)

Restoration of *Oxyena lupina* Cope, with Descriptions of Certain New Species of Eocene Creodonts. By J. L. Wortman. (Bull. XII, pp. 139-148, 10 text figures.)

Fore and Hind Limbs of Carnivorous and Herbivorous Dinosaurs from the Jurassic of Wyoming. By Henry Fairfield Osborn. (Bull. XII, pp. 161-172, 8 text figures.)

A Complete Mosasaur Skeleton, Oseous and Cartilaginous. By Henry Fairfield Osborn. (Mem. I, Part IV, pp. 165-188, pl. xxi-xxiii, 14 text figures.)

The Skeleton of *Diplodocus*. By Henry Fairfield Osborn. (Mem. I, Part V, pp. 189-214, pl. xxiv-xxviii, 14 text figures.)

#### DEPARTMENT OF ANTHROPOLOGY.

Description of an Ancient Anomalous Skeleton from the Valley of Mexico; with Special Reference to Supernumerary and Bicipital Ribs in Man. By Dr. Aleš Hrdlička. (Bull. XII, pages 81-108, pll. i-v, 10 text figures.)

The Eskimo of Smith Sound. By A. L. Kroeber. (Bull. XII, pp. 265-328, pl. xi-xiv, 54 text figures.)

Archæology of Lytton, British Columbia. By Harlan I. Smith. (Mem. II, pp. 129-162, pl. xiii, 117 text figures.)

The Thompson Indians of British Columbia. By James Teit. Edited by Franz Boas. (Mem. II, pp. 163-193, pl. xiv-xx, 198 text figures.)

Symbolism of the Huichol Indians. By Carl Lumholtz. (Mem. III, pp. 1-228, pll. i-iv, 291 text figures.)

#### DEPARTMENT OF ENTOMOLOGY.

Synopsis of the Species of *Melitia* of America, North of Mexico, with Description of a New Species. By William Beutenmüller. (Bull. XII, pp. 149-152.)

Some Species of North American Lepidoptera. By William Beutenmüller. (Bull. XII, pp. 157-160.)

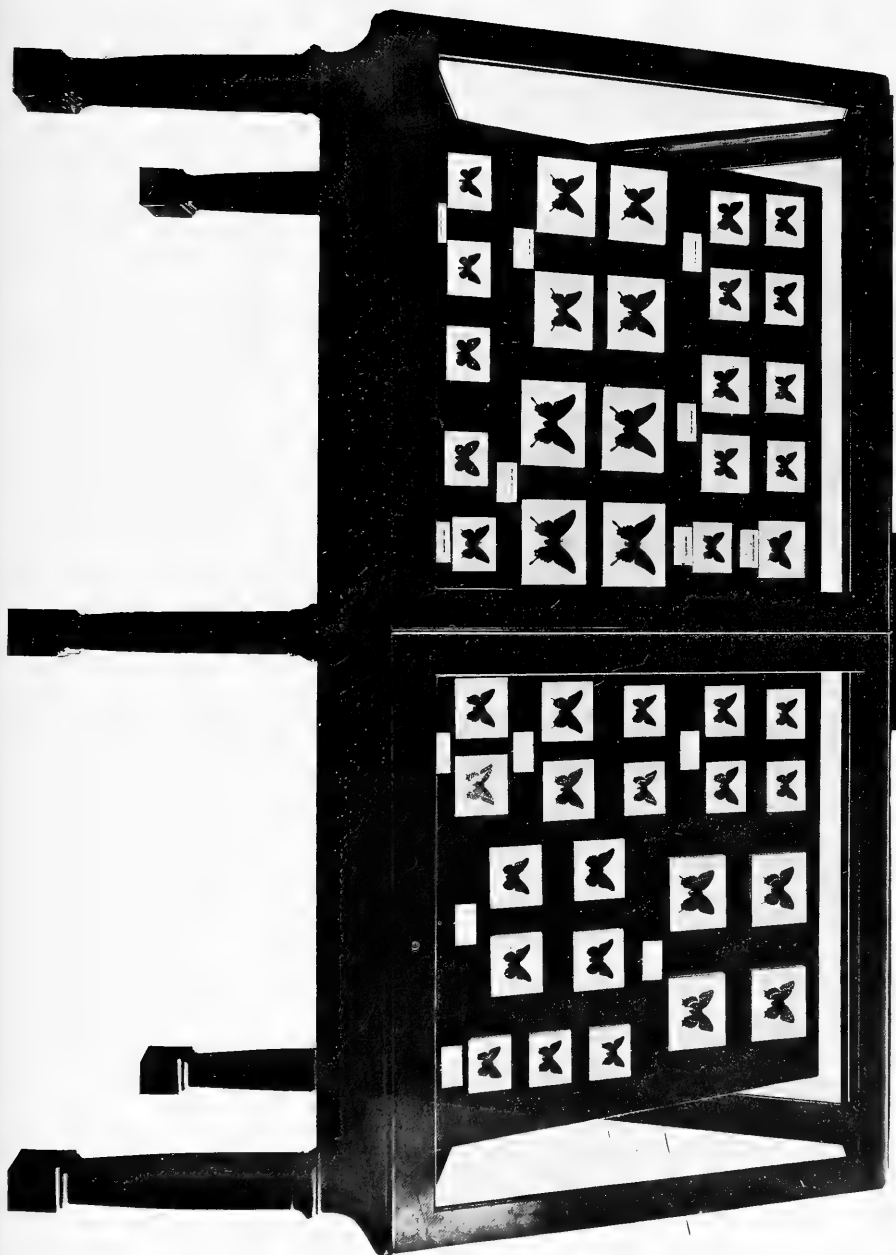
Several papers for the Bulletin and Memoirs are well under way, including a Monograph of the Sesiidæ by Mr. Beutenmüller, with several colored plates, for Volume I of the Memoirs. Owing to lack of funds for the publication of all the material that has been prepared relating to the work of the Museum, several papers have been published in other scientific journals, by permission of the Museum authorities.

Early in the coming year the publication of a periodical, to be called "The American Museum Journal," will be commenced. It will contain short articles relating to the past and present work of the Museum, and is intended to keep the members informed respecting the work carried on in the several departments.

I take pleasure in calling the attention of the members of the Museum to the important results of the various expeditions during the past year. In some instances the work has been supported from the funds of the Museum, but in the main, the cost of field research has been met by private contributions.

A very encouraging beginning has been made in the investigation of some of the Indian tribes of California and the Indian Territory; an extended reference to which is made in a preceding

INSTITUTO MEXICANO  
DE INVESTIGACIONES CIENTÍFICAS  
MUSEO DE HISTORIA NATURAL  
CALLE DE LA INVESTIGACIÓN 1111 D





page of this report. The marked success already achieved has prompted the donors to increase their contributions for the coming year; and I am gratified to add that another friend of the Museum has generously subscribed a sum for the extension of the field work among the Indian tribes of Oregon and Washington.

The rapid expansion of our collections more than keeps pace with the recent additions to the building, and it is manifest that the space available for exhibition is already inadequate for the material now on hand. In this connection, it should be remembered that the accessions to the collections from all sources steadily increase with each succeeding year.

We are indebted to the municipal authorities for their cordial coöperation with our efforts to complete the recent extensions of the building; likewise, for an increase of the annual appropriation, as authorized in the law enacted by the Legislature in March last.

I have heretofore dwelt on the necessity for a largely increased Endowment Fund, and I trust that in the near future this much-desired result may be accomplished.

I desire to record an expression of my earnest appreciation of the generous aid and coöperation which I have received from my colleagues.

On behalf of the Trustees I extend their thanks to those members and friends who have aided the Museum during the year by contributions of money or specimens.

To the Curators and their assistants, and others in charge of the several departments, my thanks are due for the praise-worthy manner in which they have carried on the work assigned to them.

MORRIS K. JESUP,

*President.*

To balance deficit of the year 1898.....	II,354 46
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Correct.—JOSEPH W. EDWARDS, *Auditor, Feb. 8, 1900.*



*MAINTENANCE.*

DISBURSEMENTS.

Cash deficit, January 1, 1899 . . . . .	\$11,354 46
Expressage . . . . .	490 94
Postage . . . . .	256 50
Repairs . . . . .	3,035 70
Coal . . . . .	6,687 60
Labels . . . . .	2,978 30
Stationery . . . . .	612 74
Poison . . . . .	167 95
Annual Report . . . . .	231 15
Supplies . . . . .	6,003 73
Salaries . . . . .	48,685 69
Fixtures . . . . .	1,444 98
Labor . . . . .	44,331 17
General Expense . . . . .	2,672 22
Interest on Debit Balances . . . . .	15 88
	<hr/>
	\$128,969 01
	<hr/>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *Dec. 31, 1899.*

<i>ENDOWMENT.</i>	
RECEIPTS.	
Cash on hand, Jan. 1, 1899.....	\$7,473 56
Freight Rebate.....	15 22
Sale of Museum Publications.....	124 34
Admission Fees.....	1,288 50
Annual Members.....	7,520 00
<b>Life Members:</b>	
James B. Ford.....	\$100 00
Morris Loeb.....	100 00
Grenville L. Winthrop.....	100 00
E. Dwight Church.....	100 00
Arthur Kyle.....	100 00
James Speyer.....	100 00
George C. Boldt.....	100 00
Mrs. Catherine L. Olmsted.....	100 00
Wm. L. Flanagan.....	100 00
August Belmont.....	100 00
James H. Hyde.....	100 00
J. Turner Atterbury.....	100 00
Wm. R. Warren, New York State Archaeological Explorations.....	300 00
Theodore Cooper.....	200 00
	I,700 00
Fellow: Robert S. Brewster.....	500 00
Patron: Dr. Frederick E. Hyde.....	1,000 00
Sale of Specimens (Shells).....	75 00
Collecting Permits.....	36 00
Interest on Invested Funds.....	18,423 34
State Superintendent of Public Instruction.....	12,000 00
Mexican Expedition Refund.....	43 60
J. F. Loubat—Mexican Expedition.....	500 00
Henry F. Osborn.....	2,000 00
B. T. B. & Frederick E. Hyde, Jr.—Hyde Expedition.....	900 00
<b>John B. Trevor Fund:</b>	
Mrs. J. B. Trevor.....	10,000 00
Interest.....	448 90
<b>Morris K. Jesup:</b>	
Jesup North Pacific Expedition.....	11,144 07
“ “ “ Publications.....	2,000 00
“ “ Expedition to U. S. of Colombia.....	3,000 00
“ “ Collection of North American Forestry.....	243 80
Mrs. Morris K. Jesup, North American Indian Research.....	1,000 00
C. P. Huntington.....	1,000 00
Dr. Frederick E. Hyde—Delaware Valley Explorations.....	1,000 00
James M. Constable—Constable Expedition to Northwest Territory.....	1,200 00
Kuhn, Loeb & Co.....	500 00
Wm. E. Dodge—Terrell Collection of Fossil Fishes.....	802 01
<b>For Pampean Collection of South American Fossil Mammals:</b>	
D. Willis James.....	\$2,000 00
H. O. Havemeyer.....	2,000 00
Adrian Iselin.....	1,200 00
Wm. E. Dodge.....	2,000 00
James M. Constable.....	1,000 00
	8,200 00
<b>Trustees' Subscriptions:</b>	
Oswald Ottendorfer.....	\$5,000 00
Joseph H. Choate.....	1,000 00
Charles Lanier.....	1,000 00
Wm. Rockefeller.....	5,000 00
H. O. Havemeyer.....	5,000 00
D. O. Mills.....	2,500 00
Adrian Iselin.....	2,000 00
Anson W. Hard.....	1,000 00
C. Vanderbilt.....	10,000 00
Wm. E. Dodge.....	2,500 00
D. Willis James.....	1,000 00
James M. Constable.....	8,750 00
Morris K. Jesup.....	10,000 00
J. Pierpont Morgan.....	10,000 00
Wm. C. Whitney.....	3,500 00
Archibald Rogers.....	250 00
	68,500 00
	\$162,638 34

Correct.—JOSEPH W. EDWARDS, *Feb. 8, 1900.*

ENDOWMENT.

DISBURSEMENTS.

Minerals.....	\$166	49
Labels.....	155	86
Mammals.....	71	99
Library.....	998	33
Mammal Groups.....	145	04
Appleton Sturgis Collection.....	8,295	52
Skeletons.....	300	00
Bird Groups.....	59	98
Geology.....	508	12
Postage.....	201	69
Traveling Expenses.....	63	70
Conchology.....	11	50
Peruvian Expedition.....	4,033	16
Annual Report.....	322	18
Stationery.....	126	35
Edwards Entomological Collection.....	790	00
Entomology.....	80	96
Spang Collection.....	2,073	33
Haines Collection.....	6,950	00
General Expenses.....	878	72
Special Loan No. 1.....	15,000	00
Interest " " ".....	323	00
Special Loan No. 2.....	18,000	00
Interest " " ".....	804	00
Marine Invertebrate Zoölogy.....	78	45
Interest on Debit Balances.....	98	90
Printing.....	263	90
Anthropology.....	4,374	37
Jesup North Pacific Expedition.....	11,144	07
Ethnic Groups.....	698	64
Vertebrate Palæontology.....	5,043	42
Department of Public Instruction.....	9,662	61
Constable Expedition to Northwest Territory.....	1,200	00
John B. Trevor Fund Investment.....	10,536	11
Vertebrate Zoölogy.....	610	38
Jesup Expedition to U. S. of Colombia.....	3,000	00
" North Pacific Expedition—Publications.....	1,807	36
" Collection of North American Forestry.....	267	12
North American Indian Research.....	1,915	05
Bulletins.....	5,414	96
N. Y. State Archæological Explorations.....	505	27
Collection of Pampean South American Fossil Mammals.....	200	00
Terrell Collection of Fossil Fishes.....	802	01
Mexican Expedition.....	1,005	50
Transfer to Maintenance Accounts:		
To balance deficit for the year 1898.....	\$11,354	46
" " " " " " 1899.....	22,614	55
Cash on hand, December 31, 1899.....	9,681	29
	<u>\$162,638</u>	<u>34</u>

CHARLES LANIER, *Treasurer.*

## CHAPTER 126.

AN ACT to authorize further appropriations for the maintenance of the American Museum of Natural History in the city of New York.

Accepted by the city.

Became a law March 23, 1899, with the approval of the Governor. Passed, three-fifths being present.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. The board of estimate and apportionment, upon the requisition of the department of parks, is hereby authorized to include annually in its final estimate of the amounts required to pay the expense of conducting the public business of the city of New York, in addition to the sum or sums now provided by law by the terms of chapter three hundred and seventy-eight of the laws of eighteen hundred and ninety-seven for the maintenance of the American Museum of Natural History, such further sums not exceeding forty thousand dollars as the said board of estimate and apportionment may appropriate.

§ 2. This act shall take effect immediately.

# LIST OF ACCESSIONS, 1899.

## LIBRARY.

### DONATIONS.

	Volumes	Parts and Numbers	Pamphlets
Benjamin Adams, Brooklyn, N. Y. ....			1
Albert I <sup>er</sup> , Prince Souverain de Monaco. ....		2	1
F. Ameghino, La Plata, S. A. ....			1
Edward Atkinson, Brookline, Mass. ....		1	
S. P. Avery, New York City. ....	4		
O. Bangs, Boston, Mass. ....		2	23
Dr. Carlos Berg, Buenos Aires, S. A. ....		2	8
William Beutenmüller, New York City. ....	6	93	9
Prof. A. S. Bickmore, New York City. ....	9		3
Otto Bismark, Berlin, Germany. ....			1
Mrs. D. G. Brinton, Media, Pa. ....			2
G. C. Broadhead, Columbia, Mo. ....			2
A. W. Butler, Brookville, Indiana. ....	1		4
T. C. Chamberlin, Chicago, Ill. ....			3
Hon. William Astor Chanler, Washington, D. C. ....	10	12	
Dr. E. Cohen, Berlin, Germany. ....			1
Willis Cummings, London, England. ....			1
M. Cossmann, Paris, France. ....			4
M. P.-A. Dangeard, Poitiers. ....			1
J. W. de Peyster, Tivoli, N. Y. ....			1
" " " " " 1 Photograph. ....			
S. D. Dill, New York City. ....	4	8	
George A. Dorsey, New York City. ....			1
Anthony Drake, Caracas, Venezuela. ....		2	
Daniel Draper, New York City. ....		10	
Vve. Ch. Dunod, Paris, France. ....		5	
A. S. Gatschet, Washington, D. C. ....			1
Antonio de Gordan y de Acosta, Habana, W. I. ....			1
Arnold Hague, Washington, D. C. ....			1
R. J. Haight, Chicago, Ill. ....		1	
Septimus J. Hanna, Boston, Mass. ....			1
Harper and Brothers, New York City. ....		1	
Hugh Hastings, Albany, N. Y. ....	1		
Frank L. Hoogs, Honolulu, Hawaii. ....		5	





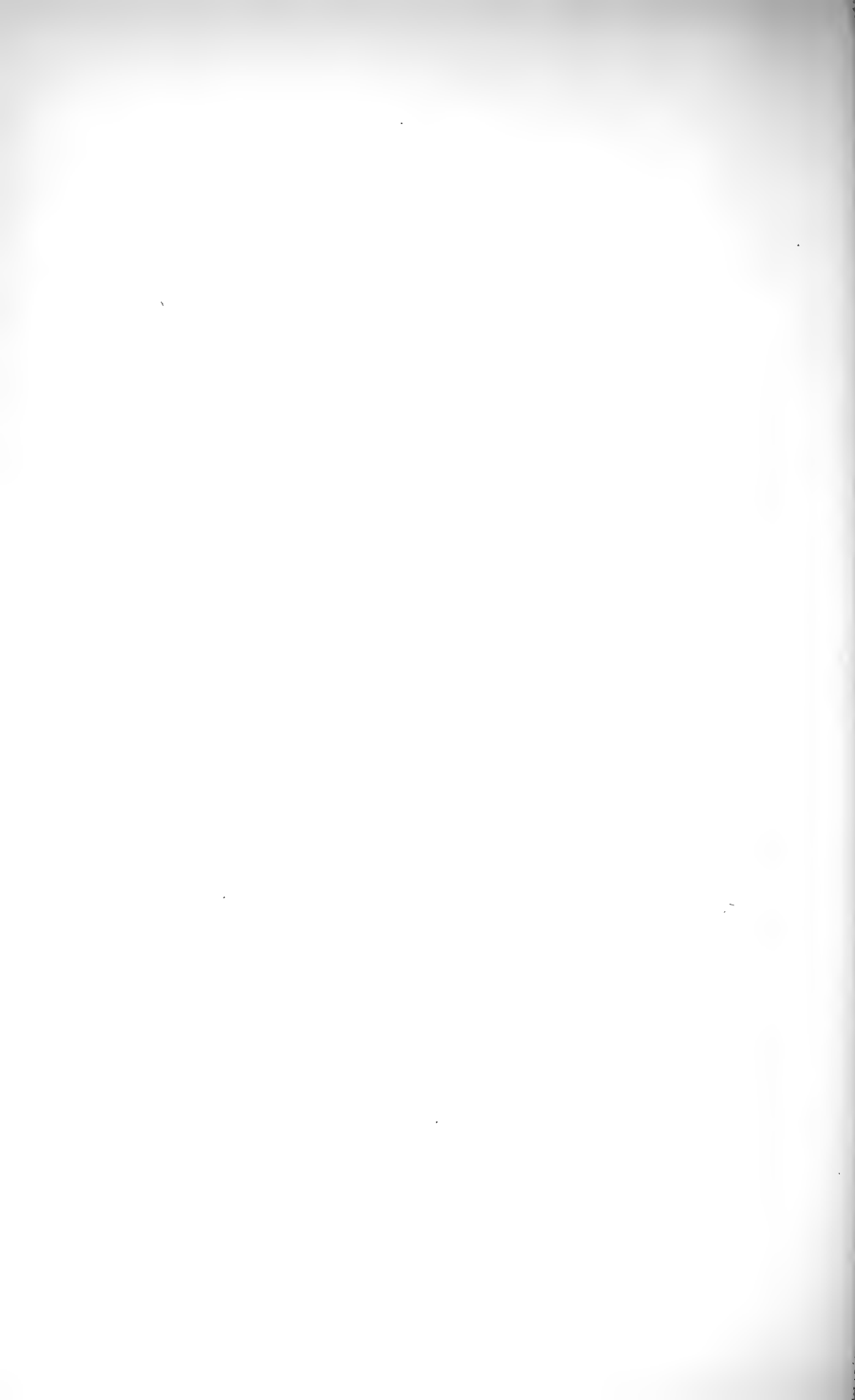
ESKIMO MAN FROM THE WEST COAST OF HUDSON BAY







ESKIMO WOMAN FROM THE WEST COAST OF HUDSON BAY



	Volumes	Parts and Numbers	Pamph- lets.
Iowa State Horticultural Society, Des Moines.....	11		
“ “ University, Iowa City.....		2	
Kansas Academy of Science, Topeka.....	1		
Kentucky Agricultural Experiment Station, Frankfort.....		2	
Maryland “ College, College Park.....		2	
“ “ Experiment Station, College Park.....	1		1
“ State Weather Service, Baltimore.....	1		
Boston Book Co., Mass.....		1	
Library Bulletin Co., Boston, Mass.....		3	
Massachusetts Horticultural Society, Boston.....		4	1
New England Zoölogical Club, Cambridge, Mass.....		3	
City Library Association, Springfield, Mass.....	1	5	1
Wellesley College, Wellesley, Mass.....	1		
Journal American Folk-Lore, Boston, Mass.....			1
Museum of Art, Detroit, Michigan.....	1		
Michigan Ornithological Club, Grand Rapids.....		5	
“ Bureau of Labor and Industrial Statistics, Lansing...	1		
“ State Horticultural Society, Lansing.....		3	
“ “ Treasurer, Lansing.....	1		
University of Minnesota Agricultural Experiment Station, St. Anthony's Park.....	1	1	
Washington University, St. Louis, Mo.....	1		
Helena Public Library, Montana.....		2	1
Nevada State University, Reno.....	2	5	
Geological Survey of Newfoundland.....	1		
New Jersey Free Public Library, Newark.....		4	
Bureau of Statistics and Labor, State N. Y., Albany.....		3	
New York State Department of Agriculture, Albany.....	2		
Institute of Arts and Sciences, Brooklyn, N. Y.....	4		
Medical Society of County of Kings, Borough of Brooklyn, N. Y.	1		
Grosvenor Free Public Library, Buffalo, N. Y.....		1	
Hamilton College, Clinton, N. Y.....	1		
New York State Reformatory, Elmira.....	1		
Farmers' Institute Bulletin Publisher, Fayetteville, N. Y.....		1	
New York Agricultural Experiment Station, Geneva, N. Y.....		16	
Lake Mohonk Conference International Arbitration, N. Y.....	1		
American National Red Cross Relief Committee, New York City.	1		
“ Society for the Prevention of Cruelty to Animals, New York City.....		14	
Arctic Club of America, New York City.....			1
Art Collector, New York City.....		4	
Camera Club, New York City.....	1		
Chicago and North Western Railway Co., New York City.....	1		
City Charity Organization, New York City.....		30	
Cooper Union, New York City.....	1		
Directors N. Y. Juvenile Asylum, New York City.....	1		
International Navigation Co., New York City.....	1		
Monumental Records Association, New York City.....		3	
National Academy of Design, New York City.....	1		
New York Association for Improvement of Poor, New York City.	1		
“ “ Entomological Society, New York City.....	1		
“ “ Post-Graduate Medical School, New York City.....		11	



	Volumes	Parts and Numbers	Pamphlets
Société D'Émulation De L'Ain, Bourg, France.....		1	
“ des Sciences Naturelles du Saone-et-Loire, Chalon-Sur Saone, France.....		4	
Société des Sciences Médicales de Gannat, Commeny, France.....	12		
“ D'Horticulture et Viticulture de la Cote-D'or, Dijon, France.....		7	
Société des Ingénieurs, sortis de l'école prov. d'Ind, etc., Hainaut, France.....		1	1
Société de Médecine et de Pharmacie, Limoges, France.....		1	
“ D'Horticulture et de Botanique du Centre de la Normandie, Lisieux, France.....		1	
Association pour L'ens. des Sciences Anthropologiques, Paris, France.....		1	
Ministère du Commerce de L'Industrie, des Postes et des Télégraphes, Paris, France.....		1	2
Königliche Friedrich-Wilhelms-Universität, Berlin, Germany.....		2	
“ Museen zu Berlin, Germany.....	1	1	
Seventh Internationaler Geographen-Kongress, Berlin, Germany. Zoologische Sammlung zu Berlin.....			3 2
Niederrheinische Gesellschaft für Natur-und Heilkunde, Bonn, Germany.....		2	
Königliches Zoologisches und Anthropologisch-Ethnologisches Museum, Dresden, Germany.....	1		
Naturwissenschaftliche Gesellschaft “ Isis” in Dresden, Germany.....		1	
Hamburgische Wissenschaft-Anstalten, Hamburg, Germany.....		5	
Verein für Kunde der Natur und der Kunst, Hildesheim, Germany.....	1		
Commerce Special de la Grèce avec les Pays Étrangers, Athènes, Greece.....		15	
Ministère Des Finances, Bureau de Statistique, Athènes, Greece.....		14	
Agricultural and Horticultural Society of India, Calcutta.....		1	1
Botanical Survey of India, Calcutta.....		3	
Government of India, Calcutta.....	24	82	20
“ “ “ “ 4 Maps.....			
Belfast Natural History and Philosophical Society, Ireland.....	1		
Agricultural Statistics of Ireland, Dublin.....			1
R. Scuola Enologica Di Avelling, Padova, Italy.....	1		
R. Università Di Pavia, Italy.....		3	
Direccion General de Estadística, Mexico.....			3
Instituto Medico Nacional, Mexico.....		7	
“ Científico y Literario d. Estado de Mexico, Toluca... ..		4	
Instruccion Pública Mexicana, Mexico.....		11	
Public Museum, Wanganni, New Zealand.....	1		
Printing and Stationery Department, Wellington, New Zealand.....	1		
Register-Generals Office, Wellington, New Zealand.....	1		
Det Statistiske Centralbureau, Kristiania, Norway.....		1	
Sociedade Broteriana, Coimbra, Portugal.....		2	
Direcção dos Trabalhos Geologicos de Portugal, Lisboa.....	3		
Imperial Russian Geographical Society, St. Petersburg, Russia.....	1		1
Bernice Pauahi Bishop Museum, Honolulu, Sandwich Islands..	2	1	
Department of Foreign Affairs, “ “ “ “ ..	1		

	Volumes	Parts and Numbers	Pamph- lets
Paradise of the Pacific, Honolulu, Sandwich Islands.....		6	
Republic-of-Hawaii, " " " " .....			I
Edinburgh Geological Society, Scotland.....	I		
" " University, Scotland.....	I		
Direccion Generale de Statistique, Buenos Aires, South America.		I	
Sociedad Cientifica Argentina, Buenos Aires, South America....		8	
Museo de Historia Natural de Valparaiso, Chili, South America.		2	
Direccion de Estadistica General, Montevideo, Uruguay, South America .....	I	2	
Sociedad Geográfica de Madrid, Madrid, Spain.....		1	
Vestergren Von Tycho, Upsala, Sweden.....		3	
Universität Basel, Switzerland.....			2
Facultad de Ciencias de la Universidad y Naturales de la Habana, Cuba, W. I.....			I
Real Academia de Ciencias Medicas, Fisicas y Nat. d. I. Habana, W. I.....		15	

MRS. ROBERT WOODWORTH, New York City.  
Bust of Milton, by Paul Akers—with pedestal.

## EXCHANGES.

	Volumes	Parts and Numbers	Pamphlets
Alabama. Geological Survey of Alabama, Montgomery.....	1		
California. University of California, Berkeley.....		I	I
Library, Leland Stanford Jr. University, Palo Alto.....		4	2
Dr. Lorenzo G. Yates, Sacramento.....	1		2
C. R. Orcutt, San Diego .....		1	
California Academy of Sciences, San Francisco.....	1	11	
Cooper Ornithological Club, Santa Clara.....		5	
Santa Clara College.....	1		
Colorado. Scientific Society, Denver.....		2	2
University of Denver.....			I
Connecticut. State Board of Agriculture, Hartford.....	1		
Connecticut Academy of Arts and Sciences, New Haven...		1	
C. E. Beecher, New Haven.....	1		
Georgia. Geological Survey, Atlanta.....	2		
Illinois. Chicago Academy of Sciences.....	1	I	
Field Columbian Museum, Chicago.....	1	13	
John Crerar Library, Chicago.....	24		
State Laboratory of Natural History, Urbana.....	2		
Indiana. Geological Survey, Indianapolis.....	1		
Iowa. Academy of Sciences, Des Moines.....	1		
Geological Survey, Des Moines .....	1		
Historical Society of Iowa, Des Moines.....		2	
“ Department of Iowa, Iowa City.....		2	
State Historical Society, Iowa City.....		3	
University of Iowa, Iowa City.....	1		
Kansas. University, Lawrence.....	2	4	
State Board of Agriculture, Topeka.....	3		
“ Historical Society, “ .....	1		
Kentucky. Agricultural Experiment Station, Louisville.....	1	3	
Louisiana. Tulane University, New Orleans.....	1		
Maine. University Library, Orono.....	2		
Maryland. Geological Survey, Baltimore.....	2		
Johns Hopkins University, “ .....		2	
Agricultural Experiment Station, College Park.....		6	
Massachusetts. Agricultural College, Amherst.....	5	7	
American Academy of Arts and Sciences, Boston.....		22	
Appalachian Mountain Club, Boston .....	1	I	
Boston Public Library.....	2	12	
“ Society of Natural History.....		14	
State Board of Agriculture, Boston.....	1		
“ Library, Boston.....	3		
Harvard College Astronomical Observatory, Cambridge....	1	I	
Museum of Comparative Zoölogy, Cambridge.....	2	11	
Peabody Museum of American Archaeology and Ethnology, Cambridge.....	1		I
Bussey Institution, Jamaica Plain.....		I	





	Volumes	Parts and Numbers	Pamphlets
New York— <i>Continued.</i>			
G. P. Putnam's Sons, New York City.....	17		
Charles Scribner's Sons, " " ".....	4		
Gustav E. Stechert, " " ".....	4		
North Carolina. H. H. and C. S. Brimley, Raleigh....		23	
N. C. Geological Survey, Raleigh.....	1		
E. Mitchell Scientific Society, Raleigh.....		3	
Ohio. Agricultural Experiment Station, Columbus.....		13	
State Library, Columbus.....	16		
Denison University, Granville.....		5	
Oberlin College.....		2	
Pennsylvania. Benjamin S. Lyman, Philadelphia.....			I
Academy of Natural Sciences, ".....	I	3	
American Philosophical Society, ".....		2	
Geographical Club of Philadelphia.....		I	I
University of Pennsylvania, Philadelphia.....	I	2	
Wagner Free Institute of Science, Philadelphia.....	I		
Zoölogical Society of Philadelphia.....	I		
University of Wyoming, Laramie.....		I	
Wyoming Historical and Geological Society, Wilkesbarre..	I		
Rhode Island. Redwood Library and Athenæum, Newport....	I		
Brown University, Providence.....	I		
Texas. Academy of Science, Austin.....	I		
Vermont. Fletcher Free Library, Burlington.....			I
University of Vermont and State Agricultural College, Burlington.....	I	5	
Middlebury College.....	I		
State Board of Agriculture, Montpelier.....	I	4	
Virginia. Dr. Edgar A. Mearns, Fort Myer.....		7	16
Washington, D. C. G. K. Gilbert.....			4
I. C. Russell.....	I		
C. D. Walcott.....			11
Department of Agriculture.....	41	371	17
" " Interior..... 246 maps.			
" " ".....	24		
" " State.....	17		
National Academy of Sciences.....	2		
Smithsonian Institution.....	14	2	4
Superintendent of Documents.....		10	12
Treasury Department.....	2		
War Department.....	11		
Wisconsin. State Historical Society, Madison.....	I		
Public Museum, Milwaukee.....	I		
Canada. Le Naturaliste Canadien, Chicoutimi.....		17	
Fruit Growers' Association, Grimsby.....	I		
Nova Scotia Institute of Natural Science, Halifax.....	I		
Entomological Society of Ontario, London.....	2	4	
Natural History Society of Montreal.....		I	
Numismatic and Antiquarian Society of Montreal.....		I	
Geological and Natural History Survey of Canada, Ottawa..	5		2
Ottawa Field Naturalists' Club.....		12	
Royal Society of Canada, Ottawa.....	I		

	Volumes	Parts and Numbers	Pamphlets
<i>Canada—Continued.</i>			
New Brunswick Natural History Society, St. John.....		1	
Canadian Institute, Toronto.....		2	
University of Toronto, Ontario.....	4	1	
Manitoba Historical and Scientific Society, Winnipeg.....	1	2	
Costa Rica. Museo Nacional, San José.....		1	
Mexico. Biblioteca de la Secretario de Fomento, Mexico.....	5	7	
Sociedad Científica "Antonio Alzate," Mexico.....		9	
" Mexicana d'Histoire Natural, ".....		2	
West Indies. Institute of Jamaica, Kingston.....		1	
Agricultural Society, Trinidad, Port-of-Spain.....		9	
South America. Instituto Geográfico Argentino, Buenos-Aires.	2	6	
Museo Nacional de Buenos-Aires.....	1	3	2
Bibliotheca Nacional, Rio de Janeiro, Brazil.....	10	2	2
Direccion General de Estadística, La Plata.....	5	1	3
Société Scientifique du Chili, Santiago.....		2	
La Universidad, Santiago, Chili.....		10	
Museo Nacional de Montevideo, Uruguay.....		2	
Republica Oriental del Uruguay, Montevideo.....	1		
Museu Paraense de Historia Natural e Ethnographia, Para.		7	
Commissão Geographica e Geologico, S. Paulo.....	9		
Museu Paulista, S. Paulo.....	2		
<i>Africa. Académie d'Hippone-Société de Recherche Scientifique</i>			
et d'Acclimatation, Bône.....			1
Colonial Secretary's Office, Cape Town.....	1		
Department of Agriculture, " ".....		20	
South African Museum, " ".....	1	2	
Société Archéologique de Constantine.....	1		
Institut de Carthage, Tunis.....		2	
" Égyptian, Le Caire.....		3	
<i>Asia. Royal Asiatic Society (Bombay Branch).....</i>			
Asiatic Society of Bengal, Calcutta, India.....		15	
Indian Museum, Calcutta, India.....	4	1	
Madras Government Museum, India.....		1	
Agricultural and Commercial Department, Tokio, Japan...	1		
Imperial University, Tokio, Japan.....	1	1	1
Koninklijke Natuurkundige Vereeniging in Ned-Indië, Bat-			
avia, Java.....	1		
<i>Australasia. Public Library Museum and Art Gallery, Adelaide.</i>			
Royal Geographical Society, Adelaide.....	24	13	1
Australian Museum, Sydney.....	1		
Department of Mines and Agriculture, Sydney.....	3	4	
Geological Survey, New South Wales, ".....	4	1	
Legislative Assembly, Sydney.....		2	
Government Statistician's Office, Sydney.....	1		
Linnean Society of New South Wales, Sydney.....	4		1
Royal " " " " " ".....		3	1
Rev. W. Colenso, Wellington.....	1	1	
New Zealand Department of Agriculture, Wellington.....	1		
Geological Survey of Queensland, Brisbane..... 12 maps.		5	2
Royal Society of Queensland, Brisbane.....		9	
Minister of Mines, Tasmania, ".....	1		
		1	





	Volumes	Parts and Numbers	Pamphlets
<i>Australasia—Continued.</i>			
Royal Society of Victoria, Melbourne.....		I	
“ Geographical Society, “.....7 maps.	2		
Victoria Zoölogical and Acclimatization Society, Melbourne.	I		
Field Naturalists' Club, Victoria.....	10	21	
Geological Survey Western Australia, Perth.....3 maps.	I	2	
Austria-Hungary. Südslavische Akademie der Wiss. und Künste, Agram.....		3	
Vorarlberger Museum Verein, Bregenz.....	I		
K. Magyarhoni Földtani Tarsulat, Budapest.....		2	
Magyar Nemzeti Museum, Budapest.....		2	
R. Società Agraria di Gorizia.....		2	
Verein f. Siebenbürgische Landeskunde, Hermanstadt.....	I	I	
Société de Médecine, Science et d'Hygiène, Kharkow.....	I		
L'Académie des Sciences de Cracovie, Poland.....		7	
K. Böhm. Gesellschaft d. Wissenschaften, Prag.....	8		
Verein f. Geschichte d. Deutschen in Böhmen, Prag.....		4	
K. K. Ackerbau-Ministerium, Vienna.....	2	I	
K. K. Gartenbau-Gesellschaft, “.....		12	
K. K. Geologische Reichsanstalt, “.....		II	
K. K. Gradmessungs-Bureau, “.....	I		
K. K. Naturhistorisches Hof-Museum, Vienna.....		3	
K. K. Zoologisch-Botanische Gesellschaft, Vienna.....		10	
Section f. Naturkunde d. Öster. Tourist-Club, Vienna.....	I		
Verein zur Verbreitung naturwissenschaft. Kenntnisse, Vienna.....	I		
Belgium. Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique, Brussels.....	5		
Dr. Alph. Dubois, Brussels.....			I
Musée du Congo, “.....	2	10	
Société Royale de Botanique d. Belgique, Brussels.....	I		
“ “ Linn. d. Bruxelles.....		8	
“ “ Malacologique d. Belgique, Brussels.....		3	
“ “ Geologique de Belgique, Liège.....		5	
“ “ des Ingenieurs, etc., du Hainaut, Liège.....	I	I	
“ “ Royale des Sciences, Liège.....	I		
“ “ Scientifique de Bruxelles, Louvain.....	3		
L'École Provinciale d'Industrie et des Mines du Hainaut, Morlanwels.....		I	
Denmark. Kongelige Danske Videnskabernes Selskab, Copenhagen.....	I	8	
France. Société Linneenne du Nord de la France, Amiens.....	24		
Société Académique d'Archéologie, Science et Arts du Département d. L'Oise, Beauvais.....	I		
Société d'Horticulture de la Gironde, Bordeaux.....		3	
“ des Études, Literature Scientifique et Artistique du Lot, Cahors.....		3	
Union Géographique du Nord d. l. France, Douai.....		2	
Société d'Horticulture de Fontenay-Le-Comte.....		7	
“ des Sciences Naturelles et Archéologie de la Creuse, Cuéret.....	I		
L'Université, Laval.....	I		I



	Volumes	Parts and Numbers	Pamphlets
<i>England—Continued.</i>			
Philosophical Society, Cambridge.....		3	
Naturalists' Society, Cardiff.....	1		
Cotteswold Naturalists' Field Club, Gloucester.....		3	
Natural History Society, Hertfordshire.....		4	
Yorkshire Geological and Polytechnic Society, Leeds.....	1		
Board of Agriculture, London.....		7	
British Museum (Natural History), London.....	5	1	
Geologists' Association, London.....		3	
Geological Society of London.....	1		
Linnean " " ".....		4	
Royal Colonial Institute, ".....		6	
" Society, London.....		16	
Wesley and Son, London.....	5		
Zoological Society, ".....	1	5	1
Field Nat. and Archæologists' Society, Manchester.....	1		
Geographical Society, Manchester.....		15	
Geological " ".....		9	
Museum, Owens College, ".....	1	3	1
Literary and Philosophical Society, Manchester.....		6	
Marine Biological Association, United Kingdom, Plymouth.		2	
Zoological Museum, Tring.....		3	
Scotland. Botanical Society of Edinburgh.....		3	
W. E. Clarke, Edinburgh.....	1		
Museum of Science and Art, Edinburgh.....	1		
Natural History Society, Glasgow.....	1	5	
Perthshire Society of Natural Science, Perth.....		1	
Italy. R. Istituto Lombardo di Scienze e Lettere, Milano....	1	1	
R. Accademia di Science, Lettere ed Arti in Rovoreto, Modena.....		3	
R. Scuola Pratica di Agricoltura, Modena....			2
" " Superiore d'Agricoltura di Portici, Padova.....	6		
" Istituto Botanico di Palermo.....		3	
" Orto Botanico di Palermo.....		2	
Società dei Naturalisti Siciliani, Palermo.....		5	
" Toscana di Scienze Naturali, Pisa.....	1	1	
R. Accademia dei Lincei, Roma.....	2	33	
" Comitato Geologico d'Italia, Roma.....		1	
Ministero d'Agricoltura, Industria e Commercio, Roma....		3	
Musei di Zoologia ed Anatomia, Torino.....		18	
Netherlands. Société Hollandaise des Sciences, Haarlem.....		3	
Norway. Departementet for det Indre, Christiania.....	1		1
Videnskabernes Selskab i Christiania.....	3		12
Museum, Stavanger.....	1		
Russia. Naturforschende Gesellschaft bei der Universität, Dorpat		1	
Commission Géologique de la Finlande, Helsingfors.....	1	1	
Société des Sciences de Finlande, Helsingfors.....	2		
" Imperiale des Naturalistes, Moscow.....		1	
Comité Géologique de la Russie, St. Petersbourg.....	2	2	
L'Académie Impériale des Sciences, St. Petersbourg.....		5	
Sweden. Bureau of Geological Survey, Stockholm.....		10	
Institut Royal Géologique de Suède, ".....I map.			

	Volumes	Parts and Numbers	Pamph- lers
Sweden— <i>Continued.</i>			
Kongl. Vitterhets Histoire och Antiquitets Akademien, Stockholm. ....	I	I	
Royal Swedish Academy of Sciences, Stockholm. ....	I	9	
Société Entomologique, Stockholm. ....		4	
Kongliga Universitetet Bibliotheket, Upsala. ....	2	3	4
Switzerland. Société Vaudoise des Sciences Naturelles, Lau- sanne. ....		2	
Lund Universitatis Lundensis, Lund. ....	I		
Société Neuchateloise de Géographie, Neuchatel. ....	I		
Schweizer Entomologische Gesellschaft, Schaffhausen. ....		I	
St. Gallische Naturwissenschaftliche Gesellschaft, St. Gall. ....	I		



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 Birds in London. By W. H. Hudson. 1898.  
 Bird Life in a Southern Country. By Charles Dixon. 1899.  
 Bird Minstrels: Their Ways, etc. By Rev. R. Corlett Cowell. 1898.  
 Bird-Preserving, etc. By Richard Avis.  
 Bird Studies. Eastern Northern America. By William E. D. Scott. 1898.  
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 Birds of Our Islands. By F. A. Fulcher.  
 Birds of the British Empire. By Dr. W. T. Greene. 1898.  
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## DEPARTMENT OF GEOLOGY AND MINERALOGY.

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- G. K. HOLLISTER.  
Concretion of bituminous limestone from Rocky Mts., N. W. Ter., Canada.
- J. S. MERIAM, New York City.  
1 specimen of an *Ichthyosaurus* eye from Lias, England.  
1 " " *Ophioderma* from Lias, England.  
1 " " *Dapedion* " " " "
- PEARY ARCTIC CLUB OF NEW YORK.  
12 Fossils from Cape Harrison, Princess Marie Bay and Summit, Cape d'Urville, Northern regions.
- W. WALLACE, New York City.  
Specimen of *Zaphrentis gigantea*, Ed. & H. from Lawyersville Schoharie County, N. Y.

#### BY PURCHASE.

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1 Specimen of Erionite from Durkee, Oregon.
- E. C. ECKEL, New York City.  
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- S. C. HAYDEN, New York City.  
2 Specimens of Thomsonite from Grand Marais, Mich.

- A. E. HEIGHWAY, New York City.  
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 1 " " massive " " Va.  
 1 " " " " Corundum.  
 2 " " " " Chromite.
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- N. B. POWTER, New York City.  
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 5 " " " " Florida.  
 2 " " " " W. Va.  
 1 " " " " Aruba Island, Caribbean Sea.
- M. H. SAVILLE, New York City.  
 1 Specimen of Opal from Queretaro, Mexico.
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 1 Specimen of Corundum from Rockingham, Canada.
- PROF. R. P. WHITFIELD, New York City.  
 11 Crystals of Struvite from Hamburg.  
 1 Specimen of Forcherite from Knittelfeld, Styria.

BY EXCHANGE.

- 1 Specimen of twinned Quartz from Japan.  
 1 " " crystallized Barite from Cumberland, England.  
 1 " " " " Platinum from South America.  
 1 " " " " Oregon.  
 1 " " " " Colorado.  
 1 " " " " California.  
 1 " " " " Russia.  
 1 " " " crystallized Orpiment from Mercur, Utah.  
 1 " " " Vesuvianite from Montana.  
 1 " " " Asbestos from New Brunswick, N. J.  
 1 " " " Barite from near Cumberland, England.  
 1 " " " Anhydrite from Bleiberg, Carinthia.  
 1 " " " Enargite from Red Mt., Col.  
 1 " " " Domeykite from Houghton, Mich.  
 1 " " " Parisite from Montana.  
 1 " " " Dickinsonite from Branchville, Conn.  
 1 " " " Sphalerite from Cumberland, England.  
 1 " " " Hardystonite from Franklin, N. J.  
 1 " " " Limonite from Brazil.  
 1 " " " Martite from Utah.  
 1 " " " Topaz " "  
 1 " " " Chalcedony from Tampa, Florida.  
 1 " " " Oerstedite (Zircon) from Chesterfield, Mass.  
 1 " " " Manganite from Negaunee, Mich.  
 1 " " " Wire Silver and Cerussite from Idaho.  
 3 " " " Cerussite from Joplin, Mo.  
 3 Stalactites of Marcasite from Galena, Ill.

Core of corroded Calcite within shell of Smithsonite from Mineral Point, Wis.  
 3 Specimens of Smithsonite from Mineral Point, Wis.  
 Black sand (Magnetite and Ilmenite) from New Brunswick, N. J.  
 Microscopic Pyrite crystals from South River, N. J.  
 Pyrite sand from Sayersville, N. J.

## BY PURCHASE.

Specimen of Calcite Pseudomorph after Aragonite from Cianciana, Sicily.  
 " " Smithsonite from Laurium, Greece.  
 " " twin crystal Gypsum from Girgenti, Sicily.  
 2 Large slabs of Spheroidal Granite from Kangasniemi, Finland.  
 Etched section of a Meteorite from Mornington Victoria, Australia.  
 " " " (Siderite) from Roebourne near Hammersley  
 Range, Queensland, Australia.  
 15 Small nuggets of gold from the Klondike.  
 Pearl from a *Venus mercenaria* L., from East River, New York.  
 10 Specimens of the various forms of calcareous incrustation from Wind Cave,  
 South Dakota.  
 10 Specimens of spodumene, tin ore, etc., from the Etta tin mine and elsewhere  
 in the Black Hills of South Dakota.

## CONCHOLOGY.

## BY DONATION.

J. J. CROOKE, Staten Island, N. Y.  
 A large number of shells from various localities.  
 A. E. DOUGLAS, New York City.  
 A number of *Marginella conoidalis* Kien, from Mosquito Inlet, Fla.  
 MRS. H. G. HOLMES, New York City.  
 1 Large specimen of *Cardium lima* Lm., from East Coast of Africa.  
 F. C. NICHOLAS, New York City.  
 10 Specimens of *Nerita cassiculum* Swb., from Rio Polomino, Col-  
 ombia.  
 NICHOLAS PIKE, New York City.  
 A miscellaneous collection of shells from various localities.

## MARINE INVERTEBRATES.

## BY DONATION.

MRS. F. B. ARNOLD, 101 West 78th St., New York City.  
 2 Specimens of *Astrophyton* from Eastport, Maine.  
 3 " " *Boltonia* " " "  
 6 " " *Molgol* " " "  
 2 " " *Ascidia* " " "  
 J. J. CROOKE, Staten Island, N. Y.  
 A number of Corals from various localities.  
 DR. A. HRDLÍČKA, New York City.  
 1 Specimen of *Squilla empusa* Say, from Pelham Bay, N. Y.  
 REV. R. P. POST, Elizabeth, N. J.  
 2 Specimens of *Mellita testudinata* Kl., from St. John's Bay, Florida.

H. I. SMITH, New York City.

- 7 Specimens of Crabs from Fort Rupert, B. C.
- 2 " " Isopoda from Fort Rupert, B. C.
- 1 " " Starfish " " "

INGLIS STUART, New York City.

- 1 Large specimen of *Gorgonia acerosa* Pallas.

PROF. R. P. WHITFIELD, New York City.

- 49 Specimens of Echinoderms.
- 4 " " Sea Anemones.
- 10 " " " Cucumber.
- 18 " " Crabs.
- 13 " " Sea Rods.
- 5 " " Conchs.
- 2 " " Conch animals.
- 6 " " Shells with animals.
- 14 " " Corals.
- 24 " " Sponges.
- 2 Jars of Starfish.
- 8 Groups of Annelids. All from the Bahamas.

## DEPARTMENT OF VERTEBRATE ZOÖLOGY.

### MAMMALS.

#### BY DONATION.

ANASTASIO ALFARO, San José, Costa Rica.

- 11 Small Mammals from Guatemala, and 3 from Cocos Island.

JAMES ANGUS, West Farms, N. Y.

- 1 Dog.

J. H. BATTY, Sheepshead Bay, N. Y.

- 1 South American Deer, and 5 small Mammals, from Colombia.

MRS. H. BURNETT, New York City.

- 1 Cat.

MRS. W. T. COLBURN, New York City.

- 3 Squirrels and 1 Bat, mounted.

JAMES M. CONSTABLE, New York City.

- 3 Caribou, 3 Mountain Sheep, 1 Fox, and 10 small Mammals, from Arctic America.

C. E. COOK, Hastings, N. Y.

- 1 Opossum.

CHARLES B. CORY, Boston, Mass.

- 5 Small Mammals from Arizona.

JOHN L. COX, Philadelphia, Pa.

- 1 Lynx, and 4 Voles, from Newfoundland.

DEPARTMENT OF PUBLIC PARKS, New York City.

- 7 Monkeys, 1 Lioness, 1 Fox, 1 Coyote, 1 West Indian Seal, 1 Bear, 1 Cape Buffalo (calf), 4 Nylghaus, 4 Zebus, 3 Indian Antelopes, 3 Deer, 1 Hippopotamus (calf), 2 Porcupines, 1 Agouti, 3 Opossums.—Total, 34 specimens, received in the flesh from the Central Park Menagerie and the New York Aquarium.

C. A. DEYO, Schoharie, N. Y.

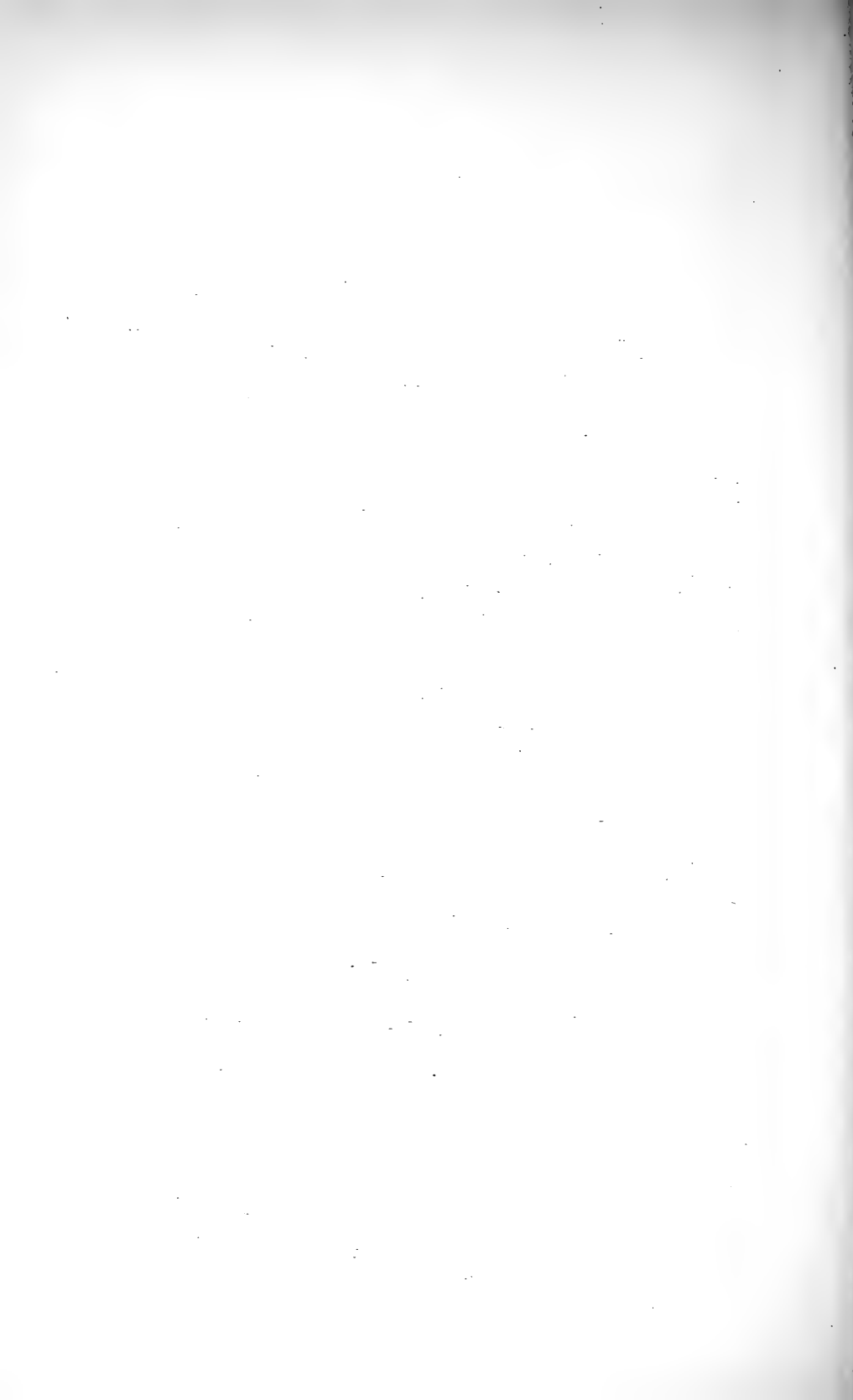
- 1 Mole, 1 Woodchuck, 1 Weasel.

- WALTER DORMITZER, New York City.  
1 Hippopotamus skull.
- J. D. FIGGINS, New York City.  
1 Bay Lynx.
- MRS. MARY C. FRANKLYN, New York City.  
1 Spaniel.
- MISS HELEN M. GOULD, New York City.  
1 Weasel, from Westchester Co., N. Y.
- W. W. GRANGER, New York City.  
1 skull of Domestic Sheep, 4 small Mammals, from Spring Creek, North Dakota, 8 small Mammals, from Aurora, Wyoming.
- E. S. HATHAWAY, Missoula, Montana.  
1 Rocky Mountain Goat.
- DR. A. HRDLICKA, New York City.  
1 Skull of Dog.
- MORRIS K. JESUP, New York City.  
1 Collie Dog, 598 Mammals, from Santa Marta, Colombia.
- DR. E. A. MEARNS, U.S.A., Fort Adams, Newport, R. I.  
6 Small Mammals from Newport, R. I.
- NEW YORK ZOÖLOGICAL SOCIETY.  
2 Pronghorn Antelopes, 1 Otter, 1 Siberian Wolf.
- PEARY ARCTIC CLUB, New York City.  
11 Musk Ox skins, 1 Musk Ox head, and 7 Musk Ox skulls, 2 Polar Bear skins and 3 skulls, 1 Walrus head. Collected by Lieut. R. E. Peary in Northern Greenland.
- COL. NICOLAS PIKE, New York City.  
9 Small Mammals from Long Island, N. Y.
- THOMAS PURDY, Harrison, N. Y.  
1 Fox.
- JOHN ROWLEY, New York City.  
1 Raccoon, 1 Squirrel.
- M. H. SAVILLE, New York City.  
1 Monkey, from Mexico.
- FREDERICK A. SCHNEIDER, New York City.  
6 Shrews and 3 Field Mice, from Jamaica, Long Island, N. Y., and 4 small Mammals from Wyoming.
- ERNEST SETON-THOMPSON, New York City.  
9 Small Mammals from Montana and California.
- HARLAN I. SMITH, New York City.  
1 skeleton of a Skunk, and skulls of Badger and Sewellel, from British Columbia.
- C. DUBOIS WAGSTAFF, New York City.  
1 mounted Grizzly Bear.
- WILLIAM WALLACE, New York City.  
1 Donkey, 1 Newfoundland Dog.
- MRS. H. WILLIAMS, New York City.  
1 Marmoset.
- CLARENCE C. YOUNG, Brooklyn, N. Y.  
3 Small Mammals from Dutch Guiana.



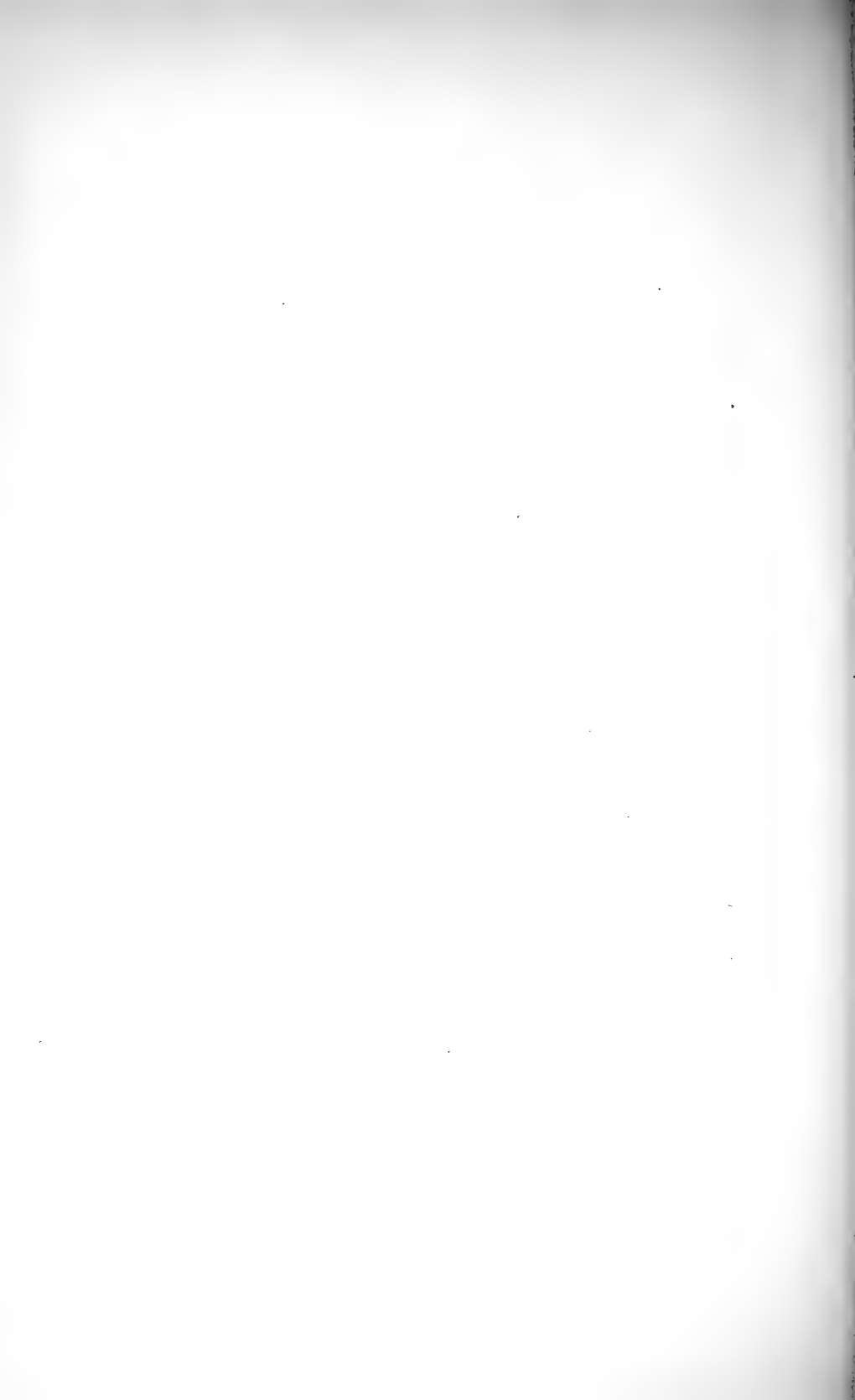
BROWN PELICAN GROUP







DUCK HAWK GROUP



BY EXCHANGE.

35 Specimens, mostly small Mammals, from California and Mexico.

BY PURCHASE.

1 Koodoo Antelope, 1 Sable Antelope, 86 small Mammals from Alberta, 77 from Venezuela, 59 from Labrador and Magdalen Islands, 51 from Florida and Mexico, 17 from Texas.

BIRDS.

BY DONATION.

ANASTASIO ALFARO, San José, Costa Rica.

1 Petrel from Cocos Island, 23 small Birds from Guatemala.

MRS. C. B. BAKER, New York City.

1 African Finch.

HERBERT BROWN, Yuma, Arizona.

1 Tern, from Arizona.

FRANK M. CHAPMAN, Englewood, N. J.

1 Tanager, 1 Cedarbird.

MRS. W. T. COLBORN, New York City.

50 Mounted birds, 80 bird skins.

JOHN L. COX, Philadelphia, Pa.

9 Bird skins from Newfoundland.

JOHN J. CROOK, Staten Island, N. Y.

Collection of birds' eggs, representing 51 species.

MRS. C. W. CROSSMAN, Alexandria Bay, N. Y.

1 Finch.

DEPARTMENT OF PUBLIC PARKS, New York City.

1 Robin, 1 Finch, 1 Blackbird, 2 Bobolinks, 9 Parrots, 6 Eagles, 1 Hawk, 1 Buzzard, 4 Pheasants, 2 Turkeys, 1 Rail, 1 Heron, 1 Duck, 7 Swans, 2 Cassowaries.—Total, 40 specimens received in the flesh from the Central Park Menagerie.

GEN. J. W. DE PUYSTER, New York City.

5 Sections of pear trees, showing perforations by Woodpeckers.

G. F. DIPPIC, Toronto, Canada.

3 Redpolls.

WILLIAM DUTCHER, New York City.

113 Small birds, 1 Duck, 1 Murre.

WILLIAM DUTCHER, through Linnæan Society of New York.

4 Rare birds from Long Island, N. Y.

JONATHAN DWIGHT, Jr., M.D., New York City.

1 Black-headed Shrike.

MISS ALLIDA EHLERS, Rhinebeck, N. Y.

1 Baltimore Oriole's nest.

JOHN FITZE, New York City.

1 Swift, 1 Thrush.

S. N. H. GALLAND, New York City.

1 Bishop Weaver-Bird.

W. W. HARRISON, New York City.

1 Hawk.

- MORRIS K. JESUP, New York City.  
2124 Specimens, from Santa Marta, Colombia.
- S. A. KROM, Plainfield, N. J.  
1 Grebe.
- H. C. LEUTLOFF, New York City.  
1 Nonpareil, taken on Long Island, N. Y.
- H. R. MOLLER, South Orange, N. J.  
6 Photographs of Oriole's nests.
- C. W. NASH, Toronto, Canada.  
1 Nelson's Sparrow.
- ALBERT NEWMAN, Canandaigua, N. Y.  
1 Crow.
- NEW YORK ZOOLOGICAL SOCIETY.  
1 Hawk.
- M. NULTY, New York City.  
1 Thrush.
- WILLIAM PALMER, Washington, D. C.  
1 Hooded Warbler.
- PEARY ARCTIC CLUB, New York City.  
4 Ivory Gulls from Greenland.
- REV. R. B. POST, Fort George, Florida.  
6 Water Birds from Florida.
- H. J. ROSENBERG, Eastport, N. Y.  
1 Pheasant.
- JOHN ROWLEY, New York City.  
65 Small birds for the local collection.
- REV. S. H. SCHWAB, New York City.  
Nest of Wren and Baltimore Oriole.
- L. C. SEYMOUR, New York City.  
1 Starling.
- HARLAN I. SMITH, New York City.  
1 Osprey, from British Columbia.
- HARRY B. STANTON, Atlanta, Georgia.  
1 Nest of Gnatcatcher.
- C. TRAVIS, Ardsley, N. Y.  
1 Osprey.
- MISS A. L. TULLY, New York City.  
Peculiar nest of House Sparrow.
- ARTHUR T. WAYNE, Mount Pleasant, S. C.  
3 Small birds from South Carolina.
- JOHN H. WINSER, New York City.  
1 Oriole.
- HON. JOHN A. WISE, New York City.  
1 Barn Owl.

## BY EXCHANGE.

39 Specimens, from various localities.

## BY PURCHASE.

450 Specimens, from Venezuela and Western Colombia.

FISHES AND REPTILES.

BY DONATION.

- DR. E. W. CULVER, New York City.  
1 Mounted Sail-fish.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
1 Alligator, 1 Cowfish. Received in the flesh from the Central Park Menagerie and the New York Aquarium.
- MISS A. GUNTHER, New York City.  
1 Salamander.
- MARK W. HARRINGTON, Mount Vernon, N. Y.  
1 "Hen-fish," from San Juan, Puerto Rico.
- MRS. J. G. K——, New York City.  
1 Horned Toad from California.
- O. C. KANZOU, New York City.  
2 Snakes from Costa Rica.
- MISS A. KENNEDY, New York City.  
1 Salamander.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
1 Leather-back Turtle, 1 Python.
- COL. NICOLAS PIKE, New York City.  
Collection of Reptiles and Batrachians (about 1300), and a few Fishes, chiefly from Long Island, N. Y.
- FRANK PLUMEJEAU and JOHN L. FIGUERA, New York City.  
Blade of Australian Sawfish.
- FREDERICK SCHNEIDER, New York City.  
7 Reptiles from Aurora, Wyoming.
- H. E. SPALDING, Cambridge, Mass.  
1 Trout.
- GEORGE V. WAKEMAN, New York City.  
1 Large Pickerel from Lake George, N. Y.
- WILLIAM WALLACE, New York City.  
1 Dogfish.
- PROF. R. P. WHITFIELD, New York City.  
2 Sea Eels from Nassau, Bahama Islands.

BY PURCHASE.

- 1 Mounted Tortoise-shell Turtle from Bermuda Islands.

DEPARTMENT OF ENTOMOLOGY.

BY DONATION.

- VERY REV. E. A. HOFFMAN, D.D., LL.D., New York City.  
300 Indian and American Butterflies.
- R. P. WHITFIELD, New York City.  
1 Large Termite's nest from Nassau, Bahama Islands.
- HENRY F. OSBORN, New York City, through South American Exploration Co.  
2 Ants' nests from U. S. Colombia.
- F. W. PUTNAM, through South American Exploration Co.  
2 Ants' nests from U. S. Colombia.

- JOSEPH W. EDWARDS, New York City, through South American Exploration Co.  
2 Ants' nests from U. S. Colombia.
- VARIAN BANKS, New York City, through South American Exploration Co.  
2 Ants' nests from U. S. Colombia.
- JAMES RICALTON, New York City.  
1 *Belostoma* from Manila.
- W. P. COMSTOCK, New York City.  
2 *Pamphila manataagua*.
- E. G. LOVE, New York City.  
4 *Pamphila panoquin*, 2 *Ommatostola lintneri*, 2 *Necrophorus vespilloides*.
- MRS. J. W. KEYES, New York City.  
1 Centipede from California.
- E. MENKE, Chicago, Ill.  
A number of Diptera from Wyoming.
- GEORGE W. PEPPER, Tottenville, New York City.  
A number of Moths from New Mexico.
- NICHOLAS PIKE, New York City.  
A collection of Spiders.
- C. PALM, New York City.  
6 Beetles.
- L. H. JOUTEL, New York City.  
Specimens of wood injured by white ants.
- MRS. A. T. SLOSSON, New York City.  
2 New species of *Sesia* from Florida.
- P. JEROME SCHMITT, Beatty, Pa.  
A collection of Scydmaenidae and Pselaphidae.
- JULIUS MEITZEN, Brooklyn.  
A number of beetles from the West.

## BY PURCHASE.

About 600 specimens of Beetles and Moths.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

## THROUGH MUSEUM EXPEDITIONS.

*In Jurassic Fossil Beds of Wyoming.*

- 131 Specimens of Dinosaurs—parts of skulls and skeletons, limbs or separate bones—from Bone Cabin Quarry. Some of these are more complete than any previously found at this locality, others represent genera and species new to our collections.
- 1 Specimen of *Brontosaurus*, including more than half the skeleton, from the Nine Mile Quarry. This Dinosaur was of the largest size, and the bones are very finely preserved.
- Part of the skeleton of a Crocodile from the Nine Mile Quarry.
- Part of the skeleton of an Ichthyosaur from the marine strata near Bone Cabin Quarry.

*In Tertiary Fossil Beds of Texas.*

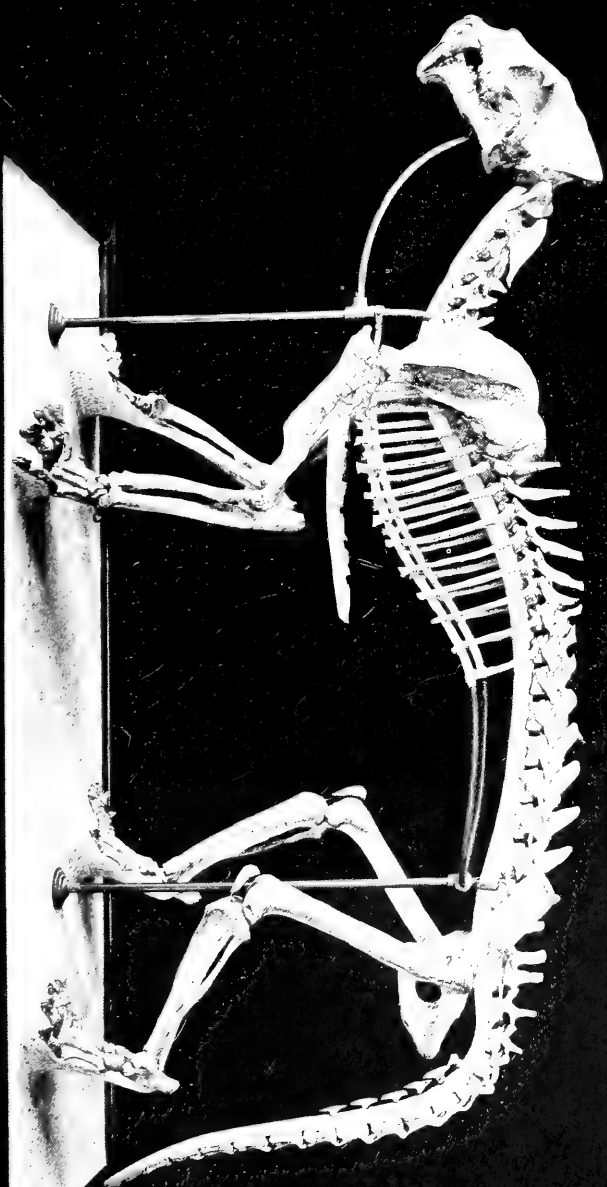
- 13 Specimens from the Upper Miocene beds of the Staked Plains, including a fine skull and large part of the skeleton of a Primitive Mastodon with four tusks.





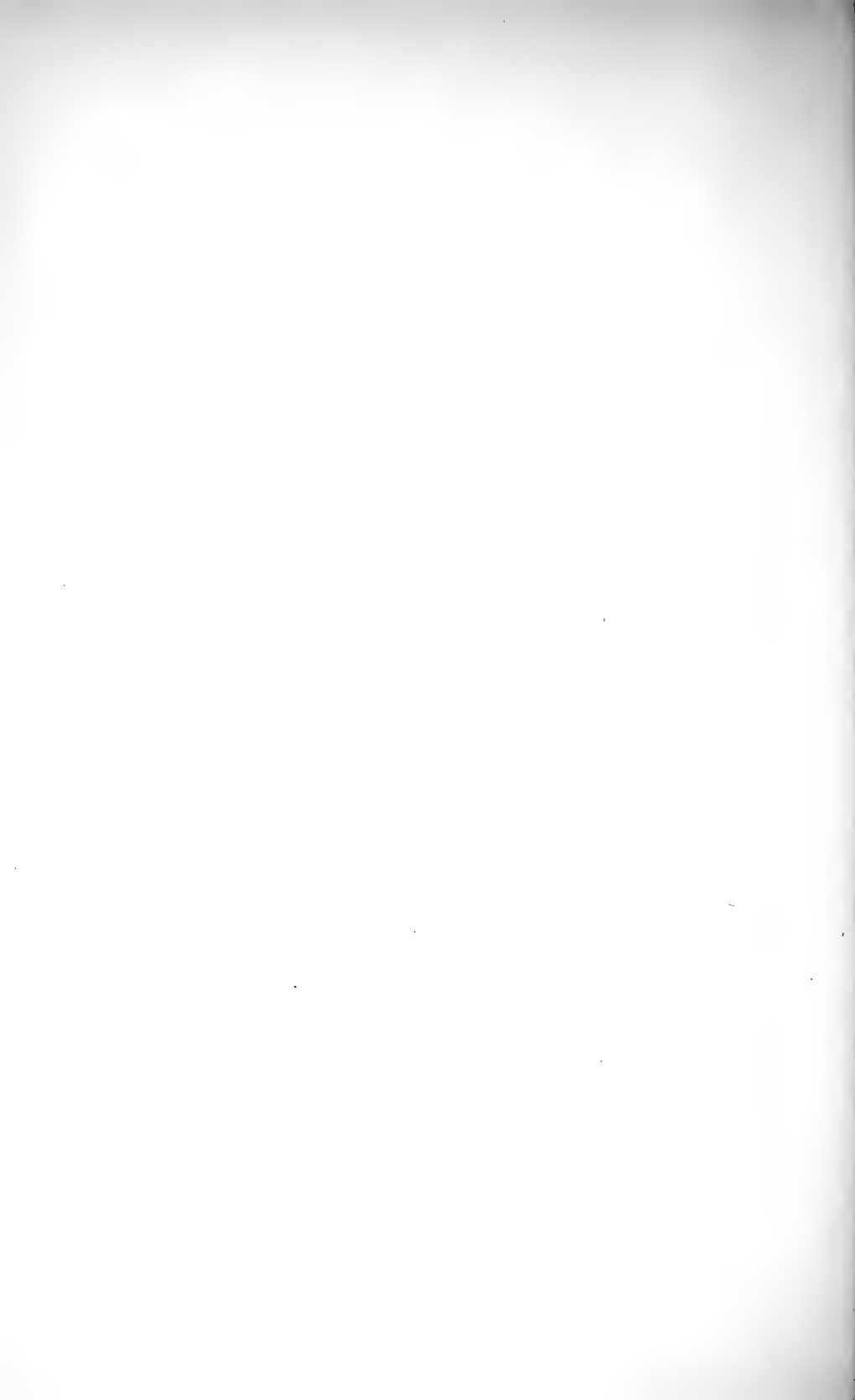
SKELETON OF LARGE MOSASAUR OR MARINE LIZARD  
Thirty feet long, mounted exactly as discovered in Cretaceous chalk. Placed in Marine Reptile Corridor. 1899





SABRI TOOTH TAIL FROM SOUTHERN DAKOTA

Absolutely perfect fossilized skeleton, mounted in such a way that every bone can be removed for purposes of study. 1899



28 Specimens from the Pleistocene beds of the Staked Plains, including five more or less complete skeletons of the Fossil Horse and a fore limb of the Mammoth.

RECEIVED IN EXCHANGE FOR DUPLICATES OR CASTS SENT OUT FROM THE  
AMERICAN MUSEUM.

From Royal Saxon Geological Survey, Leipsic, through Dr. H. Credner, 29 skeletons showing all stages of the development of the Primitive Amphibian *Branchiosaurus*. This is a valuable series, and of great scientific interest.

From Museum of the Kingdom of Bohemia, Prague, through Dr. Anton Fritsch, casts of twenty fossil vertebrates in the Prague Museum.

From Museum of Natural History, Lyons, France, through Dr. E. Lortet, casts of three and original specimens of ten species of fossil mammals from the Miocene beds of France.

From Museum of Palæontology, Paris, France, through Prof. A. Gaudry, casts of five specimens of fossil mammals in the Paris Museum.

From the Museum of University of Lyons, through Prof. C. Depéret, 47 specimens of fossil mammals from the Eocene and later strata of France.

From Royal Bavarian Museum, Munich, Saxony, through Prof. K. von Zittel, casts of seven specimens of fossil vertebrates in the Munich Museum.

COLLECTIONS SENT OUT IN EXCHANGE TO FOREIGN MUSEUMS.

To Royal Saxon Geological Survey, Leipsic, 17 specimens of American fossil mammals, mostly from the Eocene of the West.

To Natural History Museum of Lyons, France, 14 specimens of American fossil mammals and a colored model of the Duck-Billed Dinosaur.

DEPARTMENT OF ANTHROPOLOGY.

BY DONATION.

CAPT. STANLEY AMSBURY, through Warren G. F. Slover, of New York City.

1 hat and 2 rain-coats from Japan.

MISS C. P. ARNOLD, New York City.

A spinning-wheel.

DR. A. N. BROCKWAY, New York City.

A Dakota Indian shirt.

MRS. JOHN CROSBY BROWN, New York City.

A rattle from Japan and a Zulu shield.

MRS. H. M. CONVERSE, New York City.

1 Bark bowl (Iroquois), 1 basket (Klamath).

MRS. SALLY MORRIS CORY, New York City.

Opium-smoker's outfit from China.

G. W. COTTERRILL, New York City.

Archæological specimens and human skeletons from Santa Catalina Island, California.

MRS. F. L. CROSS, Redlands, Cal.

4 Indian baskets from California.

- J. DORENBERG, Leipzig, Germany.  
2 Aztec silver bells from the Valley of Mexico.
- W. J. ELLIOT, New York City.  
Potsherds and argillite points from Pelham Park, N. Y.
- LIEUT. G. T. EMMONS, Princeton, N. J.  
1 dice and counters (Tlingit), 1 labret (Eskimo) from Alaska.
- FRANCIS E. FOSHAY, New York City.  
1 Spear-head and a broken banner-stone from Yorktown Heights, Westchester Co., N. Y.
- MRS. ESTHER HERRMAN, New York City.  
3 bone implements and chips of chalcedony, dredged from the Alafia River, Florida.
- W. L. HILDBURGH, New York City.  
11 photographs of archæological specimens from New York State, an Indian mortar from Canandaigua, Cayuga Co., N. Y.
- DR. A. HRDLÍČKA, New York City.  
1 painted skin robe of the Utes of Southern Colorado.
- C. P. HUNTINGTON, New York City.  
Collection of pottery, garments, and utensils, from the Southwestern Pueblos.
- THE DUKE OF LOUBAT, New York City.  
Casts (made from Peabody Museum moulds) of altars and stelæ from Copan and Quirigua, of detached sculptures and hieroglyphic steps from Copan, and of bas-reliefs from Chichen Itza, Yucatan, and from Seibal, Guatemala; 2 copies on cloth of ancient Mexican picture-writing (called Lienzo de Zacatepec and Lienzo de Coixtlahuaca-Oaxaca) from the State of Oaxaca (originals in the Ethnographical Museum, Berlin); copy of a reproduction of the pre-Columbian Nahuatl Codex Cospiano, formerly known as the Bologna (original in Bologna); copy of the pre-Columbian Nahuatl Codex Borgiano (original in Rome); copy of the post-Columbian Nahuatl Codex Telleriano Remensis (original in Paris); collection of archæological specimens from the States of Jalisco and Michoacan, Mexico, and from the Republic of Guatemala, collected by Dr. Eduard Seler.
- M. MARIANI, Paris, France.  
Cast of a "poporo" or gourd for coca lime, from Colombia, S. A.
- H. R. MOLLER, South Orange, N. J.  
12 photographs of hammocks (taken from valuable specimens in Museum of the Peabody Academy of Science, Salem, Mass.)
- DR. GEORGE W. NASH, Kingsbridge, N. Y.  
Piece of grass-cloth from the Congo.
- PEARY ARCTIC CLUB, New York City.  
Infant's clothing from Smith Sound, Eskimo remains found in Ellesmere Land.
- MRS. HARLAN I. SMITH, New York City.  
Speaker's staff from Fort Rupert, B. C., painted box from Nimpkish River, B. C.
- HARLAN I. SMITH, New York City.  
Mortar and pestle of the Ojibwa Indians, several skeletons of Indians from near Saginaw, Mich.

**SOUTH AMERICAN EXPLORATION COMPANY, New York City.**

Terra-cotta figures, vessels and fragments, 3 gold ear ornaments, and various objects of bone and stone. Collected by F. C. Nicholas in Colombia, S. A., and presented by Mr. James L. Truslow.

Archæological specimens from Colombia, S. A., and from Costa Rica.

All collected by F. C. Nicholas, and presented by stockholders of the South American Exploration Company.

**DR. ROLAND STEINER, Grovetown, Ga.**

Fragments of soapstone pots and other objects of soapstone from an Indian quarry at Grovetown, Ga.

**MR. NEWTON STOKES.**

Desiccated and ornamented human head from the Upper Amazon River.

**L. M. TURNER, New York City.**

Small axe of green stone from Porto Rico.

**FELIX VON LUSCHAN, Berlin, Germany.**

2 Drains for infants' cradles from Kurds, Asia Minor.

**WILLIAM WALLACE, New York City.**

3 Stone arrow-points from Schoharie, N. Y.

**HAROLD WARNER, New York City.**

Eskimo boot.

**THOMAS H. WHELESS, Austin, Tex.**

"Mano" from east of Cetatlan, Guerrero, Mex.

**FROM MUSEUM EXPEDITIONS.**

Directed by the Department of Anthropology.

**THE JESUP NORTH PACIFIC EXPEDITION.** Provided for by Morris K. Jesup.

A collection of implements and utensils from the Eskimo of Alaska. Collected by Miner Bruce.

Specimens from Kenai. Collected by Lieut. G. T. Emmons.

A collection illustrating the ceremonials and industries of the Indians of Fort Rupert, B. C. Collected by George Hunt.

Specimens from the Shushitna River, Alaska. Collected by A. Beverly Smith.

Archæological collections from the shell mounds of the State of Washington; ethnological specimens from the State of Washington; archæological collections from the cairns and shell mounds of southern Vancouver Island; archæological and ethnological collections from Lillooet, B. C.; archæological collection from Nicola Valley, B. C. Collected by Harlan I. Smith.

Ethnological collection from Lillooet and Thompson River, B. C. Collected by James Teit.

**THE HYDE SOUTHWESTERN EXPEDITION.** Provided for by B. Talbot B. Hyde and F. E. Hyde, Jr.

A large collection of archæological objects and skeletons from the prehistoric Pueblo Bonito and other ruins and burial-places in New Mexico, and many photographs showing excavations and objects as found; casts and photographs of Navajo, Ute, and Apache Indians; also an extensive collection of prehistoric objects from burial-caves in the Grand Gulch region of southwestern Utah. Collected by F. E. Hyde, Jr., G. H. Pepper, Richard Wetherill, Aleš Hrdlička, Richard Dodge, F. W. Putnam.

**EXPLORATIONS IN THE DELAWARE VALLEY.** Provided for by Dr. F. E. Hyde.

Human skeletons and various implements, pottery, etc., from ancient village sites and burial-places; implements from the gravel deposits at Trenton, N. J.; bone of a musk-ox, and piece of a human femur from the glacial gravel, and a fragment of a human skull from the talus; photographs, drawings, and manuscript report of explorations. Collected and reported by Ernest Volk.

**HUNTINGTON CALIFORNIA EXPEDITION.** Provided for by C. P. Huntington.

A collection of basketry, utensils, and ornaments from the Indians of northern California; also photographs and plaster casts of Indians. Collected by Roland B. Dixon.

**JESUP ARAPAHO EXPEDITION.** Provided for by Mrs. Morris K. Jesup. Specimens illustrating the industries and ceremonials and art of the Arapaho Indians of Indian Territory. Collected by Alfred L. Kroeber.**MEXICAN EXPEDITION.** Indian costume from Tehuantepec, and archaeological specimens from the Valley of Mexico. Collected by Marshall H. Saville.**ARCHÆOLOGICAL EXPLORATION AT PELHAM BAY, NEW YORK.** Provided for by Theodore Cooper, New York City.

Indian skeletons, pottery, stone implements, animal bones, and various other objects found in the exploration of an Indian village site and burial-place in Pelham Park. Collected by Raymond Harrington.

**ARCHÆOLOGICAL EXPLORATIONS IN THE STATE OF NEW YORK.** Provided for by William R. Warren, New York City.

Indian skeletons, pottery, stone implements, and various objects of Indian make, with a clay pipe and other objects obtained by the Indians from the early settlers, found during the exploration of an Indian burial-place at Croton Neck. Collected by Raymond Harrington.

Stone implements, potsherds, and animal bones from an exploration of an Indian site in Schoharie County. Collected by M. H. Saville.

Stone implements, potsherds, bone implements, and other specimens from several shell-heaps and Indian village sites in Westchester and Rockland Counties and on Long Island. Collected by Raymond Harrington.

**BY EXCHANGE.****BRITISH MUSEUM.**

Swords and knives from the Upper Congo.

**MRS. JOHN CROSBY BROWN, New York City.**

Musical instrument from New Britain; paddle, shields, and mask from New Guinea; mask from British Columbia.

**MRS. S. S. FRISHMUTH, Philadelphia, Pa.**

Musical instruments from Japan.

**U. S. NATIONAL MUSEUM, Washington, D. C.**

Ethnological specimens from the Alaskan Eskimo; 1 medicine pouch of Sioux Indians.

**P. B. RANDOLPH, State of Washington.**

Bowl and 2 potsherds from the Yukon Valley.

**PEABODY MUSEUM, Harvard University, Cambridge, Mass.**

Ancient hat from Nootka Sound Indians; cast of two-handed poi pes-tle from Hawaii; archæological specimens from Bristol, Conn.



BY PURCHASE.

Model of a catamaran, clothing of Alaskan Indians.

4600 leaf-shaped flints and a large copper axe and other specimens from a mound cache on Bæhr Farm, Brown Co., Ill. Collected by Dr. J. F. Snyder, of Virginia, Ill.

A general collection illustrating the costumes, implements, and weapons of the Eskimo of Chesterfield Inlet and Wager River, west coast of Hudson Bay and of Southampton Island; also a number of specimens from Boothia Felix, Fury and Hecla Strait, and from Savage Island. Collected by Capt. George Comer, of East Haddam, Conn.

Iroquois masks, wands, and wampum, and a stone pipe. Collected by Mrs. H. M. Converse, of New York City.

Photographs of antiquities from Colombia, S. A., including the large collection of gold ornaments exhibited at the World's Fair of 1893.

Eskimo suit from South Greenland.

Ethnological specimens from the Blackfeet Indians. Collected by George Bird Grinnell, of New York City.

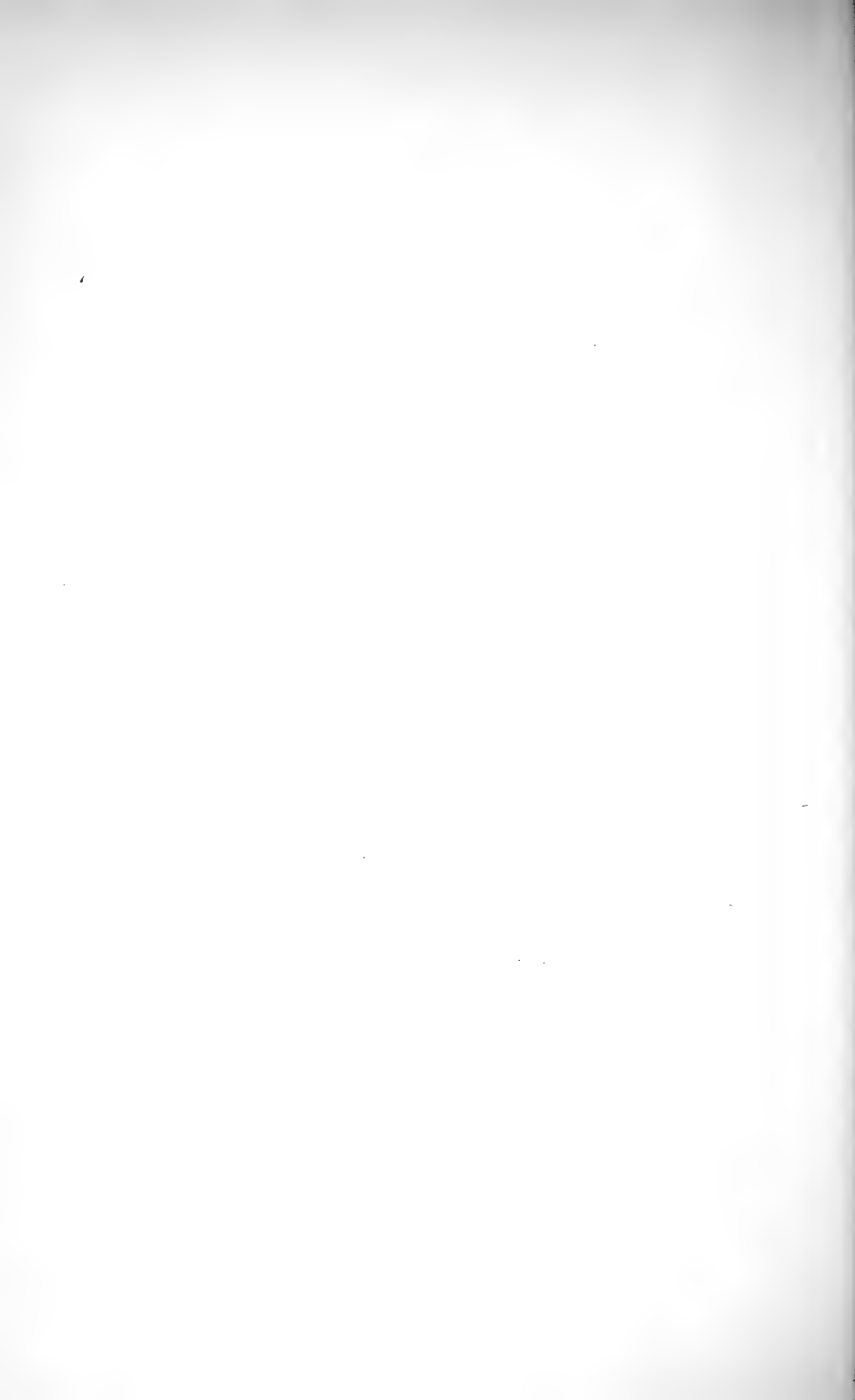
Archæological specimens from the State of Chiapas, Mex.

Grooved stone axe from three miles south of Milwaukee.

Necklace from Boruca tribe, Costa Rica. Collected by Dr. Ph. J. J. Valentini.

Sugar-making apparatus of Ojibwa Indians. Collected by F. W. Waugh, of Toronto, Can.

Mummy of a child, three skulls, and a few ornaments found in grave at Pacasmayo, Peru. Collected by Gabriel Weil, of New York City.



# INCORPORATION.

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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*The People of the State of New York, represented in Senate and Assembly, do enact as follows:*

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Charles A. Dana, Joseph H. Choate, and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction and recreation.

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension, and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named

in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase, or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.<sup>1</sup>

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes.

SEC. 5. This Act shall take effect immediately.

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STATE OF NEW YORK, }  
OFFICE OF THE SECRETARY OF STATE. } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. S.]                      Given under my hand and seal of Office at the City of Albany,  
this fourteenth day of April, in the year one thousand eight  
hundred and sixty-nine.

D. WILLERS, Jr., *Deputy Secretary of State.*

<sup>1</sup> As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

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ARTICLE I.

This Corporation shall be styled the AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II.

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, shall be the Trustees to manage the affairs, property, and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever

requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

#### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, and a Treasurer, all to be elected from the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee, and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

#### ARTICLE V.

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The office of Secretary and of Assistant Treasurer may be held by the same person.

#### ARTICLE VI.

The Executive Committee shall consist of nine, of whom the President, First and Second Vice-Presidents, and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four, and five years, respectively, and the terms for which those drawing the two, three, four, and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property of the Museum; and shall have power to purchase, sell, and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two

thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also have the books of the Museum duly audited at least once in six months by an authorized public accountant to be selected by them.

#### ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name and to take all proper measures to provide means for its support ; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

#### ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

#### ARTICLE X.

The President shall be a member, *ex-officio*, of all standing committees.

#### ARTICLE XI.

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact



current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

## ARTICLE XII.

By-Laws may from time to time be made by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

## ARTICLE XIII.

The contribution of \$1000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

## ARTICLE XIV.

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

## ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees ; or at a special meeting called for this purpose, nor by the votes of less than a majority of all the Trustees ; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

Patrons, giving \$1000, are each entitled to one Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket, and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket, and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

### III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

## IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

## V.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

## VI.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

## VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VIII.

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.

## PATRONS.

MORRIS K. JESUP.  
 ROBERT L. STUART.\*  
 Miss C. L. WOLFE.\*  
 ROBERT COLGATE.\*  
 FREDERIC W. STEVENS.  
 PERCY R. PYNE.\*  
 JAMES M. CONSTABLE.\*  
 JOHN B. TREVOR.\*  
 ADRIAN ISELIN.  
 HUGH AUCHINCLOSS.\*  
 JOSEPH W. DREXEL.\*  
 WILLIAM E. DODGE.\*  
 JOHN D. WOLFE.\*  
 ABRAM S. HEWITT.  
 C. VANDERBILT.\*  
 J. PIERPONT MORGAN.  
 CHARLES LANIER.  
 D. JACKSON STEWARD.\*  
 EDWARD CLARK.\*  
 A. G. PHELPS DODGE.  
 JAMES BROWN.\*  
 A. T. STEWART.\*  
 S. WHITNEY PHOENIX.\*  
 BENJAMIN H. FIELD.\*  
 WILLIAM T. BLODGETT.\*  
 OLIVER HARRIMAN.  
 ROBERT BONNER.\*  
 JAMES B. COLGATE.  
 ALEXANDER STUART.\*  
 WILLIAM A. HAINES.\*  
 BENJAMIN AYMAR.\*  
 RICHARD ARNOLD.\*  
 JOSEPH H. CHOATE.  
 JONATHAN THORNE.\*  
 Miss PHEBE ANNA THORNE.  
 D. O. MILLS.  
 JOHN A. C. GRAY.\*  
 HEBER R. BISHOP.  
 CHAS. G. LANDON.\*  
 WILLIAM E. DODGE.  
 PETER COOPER.\*  
 WILLIAM H. ASPINWALL.\*

B. H. HUTTON.\*  
 J. TAYLOR JOHNSTON.\*  
 D. N. BARNEY.\*  
 I. N. PHELPS.\*  
 JAMES STOKES.\*  
 D. WILLIS JAMES.  
 EDWARD MATTHEWS.  
 WILLIAM T. GARNER.\*  
 JAMES LENOX.\*  
 A. H. BARNEY.\*  
 COLEMAN T. ROBINSON.\*  
 BENJAMIN B. SHERMAN.\*  
 JAMES R. ELY.  
 JONAS G. CLARK.  
 JOHN ANDERSON.\*  
 JOHN JACOB ASTOR.\*  
 WILLIAM WALDORF ASTOR.  
 CATHERINE L. SPENCER.\*  
 JAS. GORDON BENNETT.  
 CYRUS W. FIELD.\*  
 ALEX. H. BROWN, M.P.  
 J. A. BOSTWICK.\*  
 FREDERICK BILLINGS.\*  
 MRS. ROBERT L. STUART.\*  
 JESSE SELIGMAN.\*  
 THEO. ROOSEVELT.  
 OSWALD OTTENDORFER.  
 J. HAMPDEN ROBB.  
 J. F. LOUBAT.  
 H. J. JEWETT.\*  
 WM. D. SLOANE.  
 D. G. ELLIOT.  
 LIEUT. G. T. EMMONS, U.S.N.  
 C. P. HUNTINGTON.  
 GEO. W. VANDERBILT.  
 EDWARD D. ADAMS.  
 WILLIAM C. SCHERMERHORN.  
 JOHN J. CROOKE.  
 HENRY SELIGMAN.  
 RICHARD T. WILSON.  
 JOHN E. PARSONS.  
 FRANCIS O. MATTHIESSEN.

\* Deceased.

A. J. FORBES-LEITH.  
 GEORGE BLISS.\*  
 M. C. D. BORDEN.  
 ARCHIBALD ROGERS.  
 GEORGE C. COOPER.\*  
 MRS. M. SCHUYLER ELLIOT.  
 APPLETON STURGIS.  
 THEODORE A. HAVEMEYER.\*  
 WILLIAM C. WHITNEY.  
 GEORGE G. HAVEN.  
 JAMES BAKER SMITH.  
 CYRUS W. FIELD, JR.\*  
 JAMES ANGUS.  
 HENRY VILLARD.  
 DR. WM. PEPPER.\*  
 AUSTIN CORBIN.\*  
 ANSON W. HARD.  
 GUSTAV E. KISSEL.  
 ELBRIDGE T. GERRY.  
 DR. EDGAR A. MEARNES, U.S.A.  
 JOHN D. CRIMMINS.  
 MRS. WM. H. OSBORN.

HENRY FAIRFIELD OSBORN.  
 JONATHAN THORNE.  
 VICTOR CORSE THORNE.  
 EDWIN THORNE.  
 JOEL WOLFE THORNE.  
 W. M. DONGAN DE PEYSTER.  
 HICKS ARNOLD.  
 J. PIERPONT MORGAN, JR.  
 WM. CHURCH OSBORN.  
 ALEXANDER I. COTHEAL.\*  
 WM. ROCKEFELLER.  
 B. TALBOT B. HYDE.  
 FREDERICK E. HYDE, JR.  
 L. P. DI CESNOLA.  
 GEORGE DEXTER BRADFORD.\*  
 HENRY O. HAVEMEYER.  
 A. D. JUILLIARD.  
 DR. FREDERICK E. HYDE.  
 MRS. JOHN B. TREVOR.  
 WM. SCHAUS.  
 JOHN B. MARCOU.  
 PHILLIPE MARCOU.

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## FELLOWS.

SAMUEL WILLETS.\*  
 ROBERT GORDON.  
 HOWARD POTTER.\*  
 C. V. S. ROOSEVELT.\*  
 CHARLES W. GRISWOLD.\*  
 SAMUEL F. B. MORSE.\*  
 RUTHERFORD STUYVESANT.  
 MEREDITH HOWLAND.\*  
 MARSHALL O. ROBERTS.\*  
 JOHN ALSTYNE.\*  
 O. B. POTTER.\*  
 HON. LEVI P. MORTON.  
 HANSON K. CORNING.\*  
 STEWART BROWN.\*  
 ABRAHAM DUBOIS.\*  
 TIFFANY CO.  
 LUCIUS TUCKERMAN.  
 ALFRED B. DARLING.\*

A. A. LOW.\*  
 RICHARD MORTIMER, JR.  
 THOS. A. VYSE, JR.  
 GEORGE G. GRAY.\*  
 GOUVERNEUR KEMBLE.\*  
 SAMUEL HAWK.\*  
 JOHN SNEDEN.\*  
 GEORGE BLISS.\*  
 R. A. WITTHAUS, M.D.  
 THOMAS BARRON.\*  
 GEORGE W. CASS.\*  
 CHARLES W. CASS.\*  
 H. M. SCHIEFFELIN.\*  
 WM. LIBBEY, JR.  
 ROBERT LENOX KENNEDY.\*  
 F. R. HALSEY.  
 CYRUS W. FIELD, JR.\*  
 H. M. FLAGLER.

\* Deceased.

D. B. IVISON.  
H. McK. TWOMBLY.  
HENRY G. MARQUAND.  
JOHN T. TERRY.  
JOSIAH M. FISKE.\*  
ELLIOTT F. SHEPARD.\*  
JOHN SLOANE.  
JOHN D. ROCKEFELLER.  
PHILLIPS PHŒNIX.  
LLOYD PHŒNIX.  
WM. H. HARBECK.\*  
D. WOLFE BISHOP, JR.  
CORTLANDT FIELD BISHOP.

WHEATON B. KUNHARDT.  
SAMUEL P. AVERY.  
JAMES H. JONES.  
JAMES B. HAGGIN.  
MRS. RICHARD P. DANA.  
JAMES THOMSON.\*  
AYMAR JOHNSON.  
PHILIP SCHUYLER.  
FRANCIS CHILD NICHOLAS.  
MRS. JOSIAH M. FISKE.  
VERY REV. E. A. HOFFMAN, D.D.  
MISS LAURA P. HALSTED.  
ROBERT S. BREWSTER.

## LIFE MEMBERS.

JOHN E. ALEXANDRE.  
RICHARD H. ALLEN.  
CONSTANT A. ANDREWS.  
MRS. BLANCHE L. ANDREWS.  
B. G. ARNOLD.  
JOHN JACOB ASTOR.  
J. T. ATTERBURY.  
SAMUEL P. AVERY.  
MRS. JAMES C. AYER.\*  
MISS E. AYMAR.  
JAMES A. BAILEY.  
JOSEPH C. BALDWIN.  
JAS. MUHLENBERG BAILEY.  
DAVID BANKS.  
HENRY I. BARBEY.  
FORDYCE BARKER, M.D.\*  
W. H. BEADLESTON.\*  
GEORGE E. BELCHER, M.D.\*  
C. M. BELL, M.D.  
AUGUST BELMONT.  
SAMUEL R. BETTS.  
FREDERICK BILLINGS.  
CORNELIUS N. BLISS.  
A. K. BOLAN.  
GEORGE C. BOLDT.  
MRS. WM. H. BRADFORD.  
HENRI M. BRAEM.  
BENJAMIN BREWSTER.

CHAS. P. BRITTON.  
ADDISON BROWN.  
FRANK G. BROWN.\*  
GEORGE H. BROWN.  
JAMES M. BROWN.\*  
MISS M. W. BRUCE.  
JOHN L. CADWALADER.  
MRS. ALEX. CAMERON.  
CHAS. M. CAULDWELL, M.D.  
ISAAC P. CHAMBERS.\*  
C. W. CHAPIN, JR.  
HENRY CHAUNCEY.  
E. DWIGHT CHURCH.  
FREDERIC E. CHURCH.  
BANYER CLARKSON.  
HENRY CLEWS.  
CHARLES L. COLBY.\*  
W. W. COLE.  
EDWARD COLGATE.\*  
WILLIAM COLGATE.  
MISS ELLEN COLLINS.  
MRS. WILLIAM COMBE.  
FRED. H. COMSTOCK.  
WASHINGTON E. CONNOR.  
CHARLES H. CONTOIT.\*  
HENRY H. COOK.  
EDWARD COOPER.  
THEODORE COOPER.

\* Deceased.

JOHN J. CORNING.  
 MRS. SALLY MORRIS CORY.  
 ALEX I. COTHEAL.\*  
 S. D. COYKENDALL.  
 JAMES CRUIKSHANK.\*  
 A. DALRYMPLE.\*  
 CHAS. M. DaCOSTA.\*  
 HENRY J. DAVISON.\*  
 THOMPSON DEAN.\*  
 ALBERT DELAFIELD.  
 F. W. DEVOE.  
 GEORGE B. DE FOREST.  
 S. DeJONGE.  
 J. H. DeMOTT.\*  
 PETER DOELGER.  
 NORMAN W. DODGE.  
 CLEVELAND H. DODGE.  
 PETER DONALD.  
 E. J. DONNELL.  
 ANDREW E. DOUGLAS.  
 PROF. JAMES DOUGLAS.  
 R. G. DUN.  
 WM. BUTLER DUNCAN.  
 JAMES H. DUNHAM.  
 GEORGE EHRET.  
 CARL EICKEMEYER.  
 AMBROSE K. ELY.  
 EDWARD J. FARRELL.  
 CORTLANDT DE PEYSTER FIELD.  
 JOHN FITCH.  
 WM. L. FLANAGAN.  
 PROF. A. E. FOOTE.\*  
 JAMES B. FORD.  
 JAMES FRASER.\*  
 FRANCIS P. FREEMAN.\*  
 SETH BARTON FRENCH.  
 GEORGE GARR.\*  
 WILLIAM H. GEBHARD.  
 THEODORE K. GIBBS.  
 PARKE GODWIN.  
 JAMES J. GOODWIN.  
 STEPHEN T. GORDON.\*  
 NORMAN GRANT.  
 ANDREW H. GREEN.  
 MORRIS M. GREEN.  
 JOHN GREENOUGH.

JOHN N. A. GRISWOLD.  
 JAMES B. M. GROSVENOR.  
 BERNARD G. GUNTHER.  
 FRANKLIN L. GUNTHER.  
 ALEX. HADDEN, M.D.  
 JOHN A. HADDEN.  
 JOHN P. HAINES.  
 RICHARD T. HAINES.\*  
 W. A. HAINES, JR.  
 MISS E. S. HAINES.  
 MRS. W. A. HAINES.  
 MISS L. P. HALSTED.  
 WILLIAM M. HALSTED.\*  
 WILLIAM GASTON HAMILTON.  
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| Stone, Mrs. Georgiana C. | Valentine, Mrs. Lawson  | Wills, Wm.              |
| Stone, Sumner R.         | Valentine, Wm. A., M.D. | Wilson, George          |
| Storm, Clarence          | Van Brunt, Cornelius    | Wilson, John            |
| Storm, George            | Van Brunt, Hon. C. H.   | Wilson, Washington      |
| Stratford, Wm.           | Van Emburgh, D. B.      | Wing, John D.           |
| Strong, Wm. L.           | von Hagen, Hugo         | Winthrop, Egerton L.    |

Witherbee, Frank S.	Wright, Benjamin	Zabriskie, Andrew C.
Wood, Mrs. Henry R.	Wright, Miss F. E.	Zickel, S.
Woodward, F. F.	Wurzbarger, A.	Zinsser, Aug.
Wormser, Isidor		Zinsser, Wm., Jr.
Wray, Miss Cornelia S.	Young, Edward L.	Zollikoffer, O. F.
	Youmans, Ephraim M.	

## DECEASED ANNUAL MEMBERS,

1899.

Agnew, John T.	Graham, Malcolm	Moir, James
Alexander, Henry M.	Hill, James K.	Stechert, Gustav E.
Appleton, Wm. H.	Hawley, Henry E.	Steers, Edward P.
Bianchi, F.	Hoagland, Joseph C.	Taylor, Peter B.
Collins, Miss M. M.	Kraus, William	Turnure, Lawrence
Daly, Augustin	Livingston, H. T.	Van Pelt, G. S.
Daly, Chas. P.	Mali, Charles	Voorhis, Wm. W. L.
Elliott, George	Mitchill, Mrs. S. L.	Webb, W. H.



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## In Memoriam.

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On the occasion of the Regular Quarterly Meeting of the Trustees of the American Museum of Natural History, held November 13th, 1899, the following minute was unanimously adopted :

*Resolved*, That the Trustees of the AMERICAN MUSEUM OF NATURAL HISTORY wish to place on lasting record their deep sense of loss in the death of their late associate,

### **CORNELIUS VANDERBILT,**

and their warm appreciation of his high character and great usefulness. He was for twenty-one years a Trustee, and during that time served for eight years as a member of the Executive and Auditing Committees.

Always greatly interested in the work of the Museum he not only contributed largely to its funds, but gave freely of his time and influence to promote its welfare. His calm, wise judgment, his unfailing courtesy, his liberal views, his quick understanding and his personal charm made him an invaluable member of our councils. Always simple, unassuming and deferring to the views of others, his experience, ability and position rendered his aid of large service.

A patriotic citizen, he was interested in everything that tended to the welfare of the country and the city. He gave largely to all civic, philanthropic and Christian causes. He devoted his time and strength to all good things with

conscientious fidelity, which furnished an object lesson of great value. He was a fine type of a high-minded gentleman, holding his large wealth and power for good as a trust for God and for his fellow men. His genial presence will be sadly missed, and his memory will always be held in tender and affectionate regard.

*Resolved*, That this minute be placed on the Records of the Museum, and a copy be sent to the family of Mr. VANDERBILT.

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At the Regular Quarterly Meeting of the Trustees of the American Museum of Natural History, held May 14th, 1900, President Morris K. Jesup reported the death of First Vice-President JAMES M. CONSTABLE.

In announcing Mr. Constable's decease, the President paid the following tribute to his memory :

"It is my sad duty to announce the death of our late colleague, Mr. JAMES M. CONSTABLE. He passed away on Saturday evening last, without suffering and with undimmed faculties up to the time of his death. He died as he had lived.

"We shall keenly feel the loss of his presence with us ; I more than any of his associates here. He was my friend in all that the word stands for ; he was my counselor and my advisor in administering the many and varied details of the work of the Museum ever since my election to the Presidency of this Board.

"Mr. CONSTABLE's interest in the Museum was an active one, frequently leading him to visit the several departments to observe the progress of their work.

"As Chairman of the Executive Committee, he was very punctual in attendance at its meetings, which, with few exceptions, have been held either at his office or his residence.

"Mr. CONSTABLE possessed full knowledge of the lesser as well as the greater details of the Museum's work, and his wisdom, ripe experience and judgment were invaluable to me ; I always felt secure in seeking his counsel in the management of the affairs of the Institution. His death is a personal loss to myself, and I shall miss far more than mere words may express, his gentleness, his

helpful aid, his ever-present courtesy and encouragement. I have caused to be prepared and ask leave to present the following minute: "

On the twelfth day of the present month the American Museum of Natural History sustained a great loss in the death of

## **JAMES MANSELL CONSTABLE.**

Mr. CONSTABLE became a Fellow of the Museum in 1871, and was elected to its Board of Trustees in the following year. He served as a Member of the Executive Committee, and was subsequently chosen its Chairman, which position he filled until his death. Mr. CONSTABLE also held the office of First Vice-President, to which he was elected in 1890.

By the generous financial aid of Mr. CONSTABLE, the first relations of the Museum with the cause of public education were established in 1882, and practically formed the beginning of the present Department of Public Instruction of the Museum.

In the performance of the duties which devolved upon him in his official relations to the Museum, Mr. CONSTABLE manifested the patience, sound judgment, sincerity and gentleness which prominently distinguished his character. He was unselfish in giving his earnest and individual efforts and financial support to everything that would promote and develop the growth of the Museum, and his interest in its work was actively expressed until within a few days of his death.

He valued highly his kind and friendly relations with the Trustees, and his associates felt for him the esteem which his wise counsel and never-failing kindness and courtesy justified.

It is directed that this Minute be placed upon the record of the Meeting; that a copy of the same be forwarded to his family, and that this Board, as a body, attend his funeral.

On Motion, the Minute was adopted.







1881

# American Museum of Natural History

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park West.)



ANNUAL REPORT OF THE PRESIDENT,

TREASURER'S REPORT, LIST OF ACCESSIONS,

ACT OF INCORPORATION, CONSTITUTION,

BY-LAWS AND LIST OF MEMBERS

FOR THE YEAR 1880

PRINTED FOR THE MUSEUM





THE  
AMERICAN MUSEUM OF NATURAL HISTORY.



THE  
AMERICAN MUSEUM OF NATURAL  
HISTORY,

CENTRAL PARK, NEW YORK CITY,  
Seventy-seventh Street and Central Park West.

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ANNUAL REPORT OF THE PRESIDENT,  
TREASURER'S REPORT,      LIST OF ACCESSIONS,  
ACT OF INCORPORATION,    CONSTITUTION,  
BY-LAWS AND LIST OF MEMBERS  
FOR THE YEAR 1900.



NEW YORK:  
PRINTED FOR THE MUSEUM.

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1901

-WM. C. MARTIN PRINTING HOUSE  
NO. 111 JOHN STREET  
NEW YORK

## BOARD OF TRUSTEES,

1901.

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MORRIS K. JESUP.

ADRIAN ISELIN.

J. PIERPONT MORGAN.

JOSEPH H. CHOATE.

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A. D. JUILLIARD.

FREDERICK E. HYDE.

PERCY R. PYNE.

HENRY F. OSBORN.

# OFFICERS AND COMMITTEES

FOR 1901.

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## President.

MORRIS K. JESUP.

## First Vice-President.

WILLIAM E. DODGE.

## Second Vice-President.

HENRY FAIRFIELD OSBORN.

## Treasurer.

CHARLES LANIER.

## Assistant to the President.

HERMON C. BUMPUS.

## Secretary and Assistant Treasurer.

JOHN H. WINSER.

## Executive Committee.

J. HAMPDEN ROBB, *Chairman*.

MORRIS K. JESUP.

ANSON W. HARD.

WILLIAM E. DODGE.

H. O. HAVEMEYER.

HENRY F. OSBORN.

FREDERICK E. HYDE.

CHARLES LANIER.

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## Finance Committee.

J. PIERPONT MORGAN.

D. O. MILLS.

CHARLES LANIER.

D. WILLIS JAMES.

The President *ex-officio*.

## Nominating Committee.

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WILLIAM E. DODGE.

ABRAM S. HEWITT.

The President *ex-officio*.

DEPARTMENT OF PUBLIC INSTRUCTION.

Prof. ALBERT S. BICKMORE, Curator.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE  
PALÆONTOLOGY.

Prof. R. P. WHITFIELD, Curator.

Dr. EDMUND O. HOVEY, Associate Curator.

DEPARTMENT OF MINERALOGY.

L. P. GRATACAP, Curator.

Also in charge of Conchology. \*

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

Prof. HENRY FAIRFIELD OSBORN, Curator.

Dr. W. D. MATTHEW, } Assistant Curators.

Dr. O. P. HAY, }

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

Prof. J. A. ALLEN, Curator.

FRANK M. CHAPMAN, Associate Curator.

JOHN ROWLEY, Taxidermist.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.

Prof. HERMON C. BUMPUS, Curator.

DEPARTMENT OF ANTHROPOLOGY.

Prof. FREDERIC W. PUTNAM, Curator.

Prof. FRANZ BOAS,  
Curator of Ethnology.

MARSHALL H. SAVILLE,  
Curator of Mexican and Central American Archæology.

HARLIN I. SMITH,  
Assistant Curator of Archæology.

DEPARTMENT OF ENTOMOLOGY.

WILLIAM BEUTENMÜLLER, Curator.

LIBRARIAN.

A. WOODWARD, Ph.D.

## FORM OF BEQUEST.

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*I do hereby give and bequeath to* "THE AMERICAN MUSEUM OF  
NATURAL HISTORY," *of the City of New York,*

.....

.....



## THIRTY-SECOND ANNUAL REPORT.

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*To the Trustees and Members of the American Museum of Natural History :*

I have the honor to submit herewith a brief statement of the proceedings of the Museum for the year 1900 :

FINANCES.—Your attention is directed to the Treasurer's Report on pages 30, 31, 32 and 33, presenting separately the receipts and disbursements for Maintenance and Endowment.

At the annual meeting of the Board, held at the beginning of the year, expenditures for maintenance amounting to \$137,489 were authorized, an amount \$17,489 in excess of that appropriated by the city. This estimated deficit has been reduced, and the Trustees have contributed \$12,000, so that we might begin the present year without debt. The total sum subscribed by the Trustees since the opening of the Museum, to meet the yearly recurring deficits in this account, now amounts to \$250,393.

BOARD OF TRUSTEES.—Mr. Percy R. Pyne was elected a Trustee at the Annual Meeting held in February, and was also made a member of the Executive Committee.

At a meeting of the Trustees held May 14 it was my sad duty to announce the decease of our valued associate, Vice-President James M. Constable. His death was a great personal loss, inasmuch as he was intimately and actively associated with me in the administration of the affairs of the Museum. Almost from the time of his election to the Board he served as Chairman of the Executive Committee, and since 1890 he has been our First Vice-President.

On December 15 the Board met with the loss of another of its members through the death of Mr. Oswald Ottendorfer. Mr. Ottendorfer was elected a Trustee in 1886, and his deeds attest the deep interest which he took in the objects and aims of the Museum. Although his impaired health prevented him from attending regularly the meetings of the Trustees, his devotion to the Museum was manifested repeatedly through his generous contributions.

LEGISLATION.—By the terms of Chapter 185 of the laws of 1900, reprinted on another page of this report, the city authorities were empowered to expend \$350,000 for the completion and equipment of the east and west corner wings and for such other purposes as might be agreed upon between the Department of Parks and the Trustees of the Museum. Of this sum an issue of bonds to the amount of \$150,000 has been authorized by the Board of Estimate and Apportionment.

MEMBERSHIP.—During the year just closed Messrs. Percy R. Pyne, George A. Hearn, George T. Bliss, Frederick A. Constable, Charles M. Jesup, Edwin H. Weatherbee; Mrs. Josiah M. Fiske, Mrs. Morris K. Jesup and Miss Elizabeth M. Sturgis were elected "Patrons," Messrs. John L. Cadwalader and Wm. Earl Dodge, 3d, became "Fellows," and the following-named persons were elected "Life Members": Messrs. C. R. Agnew, G. B. Agnew, Thomas Baring, J. O. Bartholomew, Bertrand F. Bell, Theodore Berdell, William Brewster, Joseph Bushnell, Hugh J. Chisholm, Lester B. Churchill, George C. Clausen, Treadwell Cleveland, Bird S. Coler, Samuel D. Collins, Frederick Cromwell, Eugene Delano, Anthony Dey, William A. DuBois, Horace Gray, E. H. Harriman, George B. Hopkins, Archer M. Huntington, Frank D. Hurtt, Walter B. James, Theodor Whitman Knauth, John Burling Lawrence, John R. Livermore, Francis H. Markoe, M. D., George W. Maynard, Ernest Schernikow, William Trotter, Robert A. Van Wyck; Miss Ellen H. Cotheal, Miss Ethel DuBois, Miss H. Olive Trowbridge, Mrs. David S. Eggleston, Mrs. E. C. Moore and Mrs. Charles Boughton Wood.

I regret to record the decease of Henry Villard, Collis P. Huntington, Jonas G. Clark, Appleton Sturgis and James Baker Smith, all "Patrons" of the Museum; and of Messrs. Frederick E. Church, E. J. Donnell, R. G. Dun, John Alsop King, Percival Knauth, Mandeville Mower, George Richards and Mrs. E. Keep-Schley, "Life Members."

ENDOWMENT FUND.—It is a pleasure to report that the Endowment Fund has been increased by a gift of ten thousand dollars from Mrs. Josiah M. Fiske, to be invested and designated "The Josiah M. Fiske Fund." The income of this fund is to be used at the discretion of the Trustees. A contribution of one thousand dollars received from Mr. George A. Hearn has also been added to the Endowment Fund. The Permanent Invested Fund now amounts to \$400,000, yielding a yearly income of \$20,280.

I feel it my duty again to refer to the great need of a much larger Invested Fund. With the growth of the Museum as a whole there are naturally increased demands from the various departments and our activities have increased beyond the means at our disposal. Each season's work reveals greater opportunities for an increase of our collections, and if our prestige is to be maintained we must take advantage of these opportunities.

The Museum has become a valuable ally to the educational institutions, both of the City and State; indeed, teachers and pupils from neighboring States are often met in the Exhibition Halls, and the work of the Department of Public Instruction has been adopted by ten States and two foreign countries. This alone is ample justification for the course the Trustees have taken in the past, and the need of a substantial endowment to perpetuate the institution as an educational power is nothing short of imperative.

ADDITIONS TO THE BUILDINGS.—The New Lecture Hall was completed early in the fall, and was dedicated on Wednesday afternoon, October 30.

The new structure was formally transferred to the Trustees by the Honorable George C. Clausen, President of the Department of Parks, and accepted by your President on behalf of your

Board. A complete report of the opening exercises has been incorporated in this report.

TRANSPORTATION.—The courteous aid extended in the past to our field parties has been continued by the following railroads: The Southern Pacific, the Wabash, and Missouri Pacific, the Union Pacific, the Canadian Pacific and trans-Pacific connections, the Chicago & Northwestern, and Chicago, Milwaukee & St. Paul, the Atchison, Topeka & Santa Fé, the Denver & Rio Grande, the Chicago, Burlington & Quincy, and the Northern Pacific.

ATTENDANCE.—The number of visitors during the year was 523,522, an increase of 65,071 above the record for 1899. The Museum was closed in the evening during the summer season for the purpose of making repairs to the electric lighting plant.

Your attention was directed in the report of last year to the largely increased use of the Museum's material by classes from public and private schools. The record for the year shows that 5,302 teachers and scholars availed themselves of the privilege of studying the collections.

Certain classes in the public schools of this city are now permitted by the Board of Education to visit the Museum during recitation hours to examine the collections in connection with their daily studies.

ACCESSIONS.—I invite your attention to the long list of accessions in the later pages of this report. Of special note is the gift of the Andrew Ellicott Douglas Collection of Prehistoric Indian Relics. Mr. Douglas has been engaged in forming this collection since 1887. He began with a single find of forty-five objects, and now his collection numbers twenty-three thousand specimens. The collection is complete in itself, and is of unique scientific value. Many of the specimens are of exquisite beauty, and the terms of gift provide for the preservation of its integrity as a collection.

Mr. Fordham Morris has presented the Trustees with a large portrait of the late John J. Audubon, the naturalist, painted by his sons, John and Victor. This has been placed in the reading

room of the library with the pictures presented by the late Mr. C. P. Huntington, and by Mr. William C. Havemeyer and other friends of the Museum.

EXPEDITIONS.—The several Museum expeditions during the year have secured important knowledge in relation to past and present peoples. This will be made known through the exhibition of specimens obtained, and by the series of papers and memoirs now in course of publication.

*Jesup North Pacific Expedition.*—During the present year the party sent to the Amoor River in Siberia returned, bringing much information relating to the tribes inhabiting that area. Dr. Berthold Laufer, who was in charge of this work, collected information particularly among the Gold, Gilyak and Ainu, and his collections illustrate the life of these tribes. During the past year a party was also sent out to the Sea of Okhotsk to carry on investigations among the Chukchee and the Koryak. This party is in charge of Mr. Waldemar Jochelson, who is to devote himself to a study of the Koryak and Yukagheer, while Mr. Waldemar Bogoras is to concentrate his attention particularly upon the Chukchee. Mr. Alexander Axelrod is to do anthropometric work among these tribes. Work was also carried on on Vancouver Island, where, during the past year, Dr. Boas continued his former researches among the Kwakiutl Indians. Mr. Livingston Farrand continued his work among the Quillayute on the west coast of the State of Washington, and Mr. James Teit was engaged in investigations among the Chilcotin Indians. Many specimens from these regions were secured for the Museum. In August, Dr. John R. Swanton started for Queen Charlotte Islands, where he is to remain for a year, investigating the Haida.

*Mrs. Morris K. Jesup Expedition.*—Mr. A. L. Kroeber has remained in charge of this expedition, and has continued his work on the symbolism of the Arapaho Indians, spending the greater part of his time among the northern Arapaho in Wyoming, from which place he has sent a very large collection of specimens to the Museum.

*Huntington Expedition to California.*—The work of collecting among the fast-vanishing tribes of California, which was instituted by the late Mr. C. P. Huntington, was continued during the present year. Dr. Roland B. Dixon continued his work successfully among the Maidu Indians in the foothills of the Sierras east of Sacramento River, and he visited a number of other tribes for comparative study. There is much yet to be done among the California Indians, and it is hoped that this exploration may be continued.

*Villard Expedition to Oregon.*—The conditions among the Indians of Oregon are such that the extinction of a number of tribes may be expected within a few years. This fact induced the late Mr. Henry Villard to provide for an investigation of these tribes; and during the past summer Dr. L. Farrand made a thorough investigation of the Alsea, a tribe which is reduced to not more than about a dozen individuals. At the same time Dr. Farrand succeeded in making a valuable collection of specimens illustrating the primitive life of several tribes of this region.

*Mexican Expedition.*—During the winter of 1899-1900 Mr. Saville was engaged in the exploration of the ruins of Mitla and vicinity. He was very successful in the scientific results of the exploration, and discovered many important facts in relation to the architecture of the buildings composing this noted group.

Several cruciform subterranean structures were found at Mitla, the walls of which were in several instances as elaborately ornamented with mosaic work as are those of the great "palaces." By the generous aid of the Duke of Loubat, Mr. Saville was able to return to Mitla in November last, where he is now engaged in exploration.

*The B. T. B. Hyde and F. E. Hyde, Jr., Southwestern Expedition.*—In April last, Dr. A. Hrdlička, accompanied by Mr. W. Orchard, an assistant in the department, carried on anthropometric and other ethnological research in New Mexico, Arizona and southern Colorado. He visited the pueblos of Moki, Zuñi,

Laguna, Acoma, Isleta, Jemes, San Domingo, San Juan and Taos; and the Apache reservations at White River, San Carlos, Mescalero; also the Jicarillas and southern Utes. He was so successful as to obtain the measurements of over nine hundred Indians of the various tribes and groups visited; also many physical examinations, eighty facial moulds, and over five hundred negatives of the people and their occupations. He also secured the materials for several ethnic groups, and fifty skulls and skeletons with various objects found in ancient graves.

It now remains to make similar researches on the more western tribes and those of portions of Mexico, in order to complete the plan of comparative study of the south and west. In connection with this work, the Messrs. Hyde have formed in the department a special reference library of works relating to the southwestern portion of America. They have bought a number of paintings by distinguished artists, and have had hundreds of photographs printed from the negatives taken by the several expeditions. They have also had several hundred lantern-slides made for use in lectures illustrating the particular subjects of their work. This great interest on their part, and their generous contributions to the Museum, cannot be too highly commended. During the summer vacation the Curator was able to visit New Mexico in connection with the work of this expedition, and to make a comparative study of a large number of ruins on the mesas and in the cañons in relation to their contemporaneity and their greater or less antiquity. In addition to the results obtained by their expeditions, the Messrs. Hyde have been able to purchase several important collections, made several years ago at the cliff houses and from caves, which are of great value for comparative study, and could not now be obtained from these sites.

*South American Expedition.*—The most important receipts from Mr. Bandelier's researches during the year are from his explorations of ancient tombs in the vicinity of Lake Titicaca. Included in this lot are many trephined skulls, also various specimens of pottery and other objects from tombs and village sites. Our collection, showing the different forms of trephining by the prehistoric peoples of Peru and Bolivia, is made one of great importance by

these large additions. This collection is now exhibited in a case on the Western Gallery.

*Explorations in New Jersey.*—Through the generous and continued patronage of Dr. F. E. Hyde, the important work in the glacial gravel and other deposits in the Delaware Valley, and the exploration of old village sites and burial-places, have been continued by Mr. Ernest Volk. A number of specimens of the handiwork of man have been found by Mr. Volk under such conditions as to show their great antiquity and their contemporaneity with the formation of certain of these deposits. The evidence thus secured during these many years of conscientious research “has made it impossible for any one familiar with the facts to doubt that man was living at the time of the deposit of these formations in the valley.” Mr. Volk has also secured remains of several human skeletons, which were found at such great depth, and under such conditions, as to prove their very considerable antiquity. He has also obtained a large number of objects relating to the early Indian occupation of the valley.

*Local Explorations.*—The small appropriation granted for the exploration of the shell-heaps, Indian village sites, and burial-places in the limits of the city or in its immediate vicinity, sufficed to keep Mr. Harrington in the field during the summer. He was fortunate in discovering an ancient village site on Long Island, which was thoroughly examined, from which he collected pottery, stone implements, and other objects, as well as several skeletons. Afterward he explored several interesting rock shelters north of this city. There are other similar shelters which should be explored before the close of the coming summer. Through these local explorations Mr. Harrington has interested several parties who have given a number of specimens to the Museum.

DEPARTMENT OF ANTHROPOLOGY.—During the last six years the Department of Anthropology has made such remarkable progress that one is tempted to dwell upon the results attained, and to prophesy for its future ; but I must confine myself to brief extracts from the report of Professor Putnam in relation to its



development during the past year, with the conviction that in time the department will present as perfect a history of the life of man as it is possible to secure. To bring this about, however, we must not feel that because we have obtained so much, our efforts should be diminished in the slightest degree. On the contrary, what has been accomplished should be our incentive to still greater work, that in the end there shall be no regret over lost opportunities. Realizing our responsibilities in relation to future generations, we can but acknowledge our present duty of securing the means for unremitting labors by interesting as many persons as possible in this great educational work, and thereby securing foundations and special funds for its accomplishment. Many enlightened and liberal patrons have helped in the past, and are helping now, while some have been called from their labors. It is to be hoped that these examples will be followed by others, until, with many patrons providing the means for research and for gathering the treasures to be displayed in the palatial structure to be extended by the City, this Museum shall increase from year to year, and in every way shall be the great centre—in the metropolis of America—for the promulgation of knowledge to the people.

To remain stationary in our work, and to limit our objects, would be to lose all hope for the future of the department. The life of man has many phases, and these must be traced in all parts of the earth. To understand his appearance and his life on this continent, we must have the means of comparative study of the facts offered by other lands. It is therefore essential that while still greater efforts should be made for research in America, in order to obtain every possible fact relating to pre-Columbian times and to our so-called native peoples, we are also bound to make special exertions for the accumulation of data relating to every other land.

The new collections arriving during the year were catalogued, poisoned, and put on exhibition or stored to await the completion of the halls assigned to the department.

A new system of keeping the records of the department has been introduced, and the correspondence and information relating to each collection have been brought together and filed. The system consists in giving each collection an accession number and

entering in the inventories the accession number of each specimen. All information relating to the accession is placed in a numbered envelope, so that it is possible, whenever desired, to find the whole correspondence relating to a given specimen or collection. A card catalogue is kept of all the accessions.

As a provision of safety, the envelopes containing these important records are placed in a document room, where they may be subject to the call of the department. In connection with this matter, the curator also suggests that a copy should be made of all inventories of the department for filing in the document room in another part of the building, in order to guard against the loss of these records by accident to the inventories in daily use in the department. Besides the inventories, the department is beginning a card catalogue of specimens. Instructions were given to assistants in the department to prepare cards for every addition in their sections as received during this year, and to continue the work on past accessions whenever practicable. For this great work, additional assistants are required in order to bring it to the desired speedy conclusion. Nine thousand eight hundred and seventy-six entries of specimens received have been made in the catalogues during the year, and 3,219 negatives and lantern-slides have been catalogued.

The work of installation of the Ethnological Section, which is under the special charge of Dr. Boas, was carried on in the North Hall on the first floor, which, according to the plans of the department, is to contain only the collections from the North Pacific coast of America. The remainder of the Emmons Collection has been placed on exhibition, and the collections of the Jesup North Pacific Expedition are now exhibited in this hall. A descriptive pamphlet showing the arrangement of the hall, and giving much valuable information, was prepared by Dr. Boas, and has been distributed to visitors specially interested. In the western vestibule there has been placed a number of large totem-poles, grave-posts, and house-posts, and several casts of rock inscriptions belonging to the collection in the adjoining North Hall, where there is not room for their exhibit owing to their size. In this vestibule, also, the Omaha skin tent presented by Dr. F. E. Hyde has been pitched.

The installation of the collections in the West Hall on the first floor was completed so as to open it to the public on November 1. This hall is to be devoted to the American Indian and Eskimo.

As all the halls assigned to the ethnological exhibits will be crowded to their utmost capacity during the coming year, there will not be sufficient room for the exhibition of the collections now on hand, and which are rapidly increasing through the Museum expeditions.

The large collection from various countries received from the Ecumenical Conference; and known as the Missionary Collection, has been temporarily arranged and exhibited in the eastern hall of the East Wing, which is assigned to the Zoölogical Department. It makes an interesting and instructive exhibit from several countries, and forms nuclei about which will grow important exhibits from distant lands.

Mr. Saville has had special charge of the archæological collections from Mexico and Central America. During the winter of 1899-1900 he was engaged in an exploration about the ruins of Mitla, working under the special concession of the Mexican Government to this Museum.

The Mexican Hall was closed for a time while being re-arranged, but was re-opened to the public on November 1, when a brief sketch of the contents of the hall was printed for distribution to visitors. The important Stahl collection from Puerto Rico—a personal gift from the President of the Museum—is placed temporarily in this hall.

The Western Gallery on the third floor, containing the collections from South America, was opened to the public on November 1.

The delay in the completion of the cases in the West Hall on the second floor, which will contain the archæological exhibits from the cliff houses and pueblos, and also the ethnological material from the present pueblos of the Southwest, as well as certain other North American archæological collections, has prevented the installation of the large and important collection received from the Messrs. Hyde.

DEPARTMENT OF GEOLOGY AND ASSOCIATED DEPARTMENTS.—The past year has been one of very little growth in the collections of the Department of Geology, etc., except in the section of mineralogy. Two gifts to the geological section, however, are worthy of mention here; that from the Smithsonian Institution of a series of specimens of Pre-Cambrian slates containing fragments of a crustacean much more ancient than any organism discovered previously; and that from H. Linden, secretary of the Zoölogical Station at Naples, Italy, of an entire volcanic bomb of large size from the summit of the volcano of Gran' Cratere on the island of Vulcano, near Sicily. Eight specimens of the trilobite, *Triarthrus becki*, which are remarkable for the preservation of the legs and antennae, were added by purchase.

The Curator of the department wrote and placed in position about one thousand exhibition labels for specimens in the James Hall collection, which nearly completes the labeling of that collection.

The work on the Catalogue of Types and Figured Specimens in the collections of the department has advanced rapidly. Part III, comprising pages 190-356 of the Catalogue and including the Devonian forms, was issued in October. The preliminary cards for the most of the remainder of the collection have been prepared and the completion of this important work during the coming year is assured.

The collection of recent invertebrates has received no additions of importance during the year.

The mineral collection has been increased by a number of gifts, the specimens added representing, in some part, obscure species, and also very beautiful examples of more common groups. The Department is again called upon in these additions to recognize the generosity of Miss M. W. Bruce.

At the close of the year a changed aspect was given to the whole future of the Mineral Cabinet by the prospect of our acquiring the Bement Collection of Minerals.

The Gem Collection has received some valuable single additions, embracing Quartz, Agate, Garnet, and Gold specimens, but its character and extent have been, simultaneously with the mineral cabinet, greatly changed through the generosity of Mr. Morgan,

in its acquirement of the gem material exhibited by Tiffany & Co. at the Paris Exposition of 1900.

The installation of these new gems and the incorporation with them of the specimens of the former collection will proceed in the new Gem Room, and may be expected to be completed during the coming year.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.—The Department of Vertebrate Zoölogy has received 728 mammals, 1,048 birds, and about 25 reptiles and fishes. The most important additions have been obtained by purchase, and include various small collections from Alaska, Mexico, Peru, and Venezuela. The South American collections, though small, have added a considerable number of species not previously represented in the Museum, several of which proved new to science. An especially important addition consists of a number of fine specimens of Moose, Bear and Caribou from the Kenai Peninsula, Alaska. A number of valuable specimens have been received in the flesh from the New York Zoölogical Park and from the Central Park Menagerie.

The Museum is indebted to Mr. W. H. Phelps for a specially noteworthy gift of 300 Venezuelan birds, many of them new to the collection, and embracing the type specimens of several species.

About thirty mammals, forty-six birds, four reptiles and five fishes have been mounted and added to the Exhibition Collection; also thirteen mounted skeletons of mammals, including three Gorilla skeletons (male, female, and young), an Orang, Gibbon, Potto, and Ornithorhynchus. Four mammal groups have been added to the series designed to illustrate the fauna of the immediate vicinity of New York City, and others are well advanced in preparation.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—This Department will celebrate the decennial of its establishment by the Trustees in May, 1901, as its organization was completed just ten years ago. In the Curator's report to the President a brief review of the history of the Department is made, including an outline of various expeditions after fossil mammals and reptiles in the

Rocky Mountains and an account of the very important acquisitions which have been made by purchase and exchange. There are altogether in the collection 8,534 specimens of fossil mammals, varying from a single tooth to complete skeletons. Six hundred and forty-eight specimens of fossil reptiles have been collected, and this number will be increased by 3,245 specimens in the second Cope collection. The exhibition has been enriched by many exchanges. Four hundred and thirty-eight specimens, and one hundred and fifteen casts have been sent out in exchange, chiefly to Museums in Europe. The total number of specimens in the department is now estimated at 12,708. The department has thus advanced a long way towards its original purpose of giving a complete history of the vertebrate life on the North American continent, but there are some important gaps to be filled, especially among the fishes.

During the past year valuable exchanges have been received, especially from Stuttgart, and additional exchange collections are expected in the near future.

Four separate expeditions were sent into the field; the largest force returned to the famous "Bone Cabin" quarry in Wyoming and secured 100 specimens, including parts of skulls, limbs and separate bones of Dinosaurs not hitherto represented in the collection. Late in the season, with the coöperation of Mr. G. R. Wieland of Yale University, through the courtesy of Professor Beecher, an extensive survey was made in the Black Hills region, which resulted in the securing of parts of two more Dinosaurs.

Mr. Barnum Brown returned from Patagonia with twenty-four boxes of the ancient fossil mammals of South America, which are now being worked up for immediate exhibition. In July he was sent by the Curator into the Laramie beds of Wyoming and returned in January with a complete skeleton of a duck-bill Dinosaur, and an incomplete skeleton of a carnivorous Dinosaur; these will make beautiful exhibition specimens.

The fourth expedition, under Mr. Gidley, revisited the fossil mammal beds of Texas and secured a fine skull and jaws of a new type of elephant, portions of the skeletons of fossil horses and limbs of extinct camels.

A special photographic dark room has been fitted up for the Department, and, at the expense of the Curator, a very beautiful series of photographs have been taken by Mr. Anderson of some of the finer specimens in the collection; also of some of Knight's restorations of the extinct vertebrates. It is proposed to publish these restorations, together with the photographs of the complete mounted skeletons upon which they are based.

The work of cataloguing has proceeded steadily, Dr. Matthew taking charge of the mammals. Dr. Hay has taken charge of the reptiles, but has given some time to the mammals. All of our collections except the Patagonian collection and the second Cope collection are now catalogued. In the work of cataloguing the Dinosaurs, Mr. Granger and Mr. Thompson have rendered valuable assistance.

Professor Osborn went abroad partly in the interests of the Department and represented the Museum at the Geological Congress in Paris. Dr. Matthew was given a leave of absence for quite an extensive tour of the foreign museums, during which he made many valuable notes and observations.

After a number of experiments a permanent method of mounting the small specimens in attractive form with the use of fixed color cards has been adopted. Dr. Matthew and Mr. Thompson have made considerable progress in this work.

DEPARTMENT OF ENTOMOLOGY.—During the past year considerable progress has been made in the arrangement of the study collection of Coleoptera, and a large number of specimens have also been placed on exhibition. One hundred enlarged drawings of minute beetles have been made, and are ready for exhibition cases.

The Very Rev. E. A. Hoffman has generously donated 1,000 specimens of butterflies from North and South America and Asia. These will be placed on exhibition as soon as the cases can be provided. The entire collection of butterflies presented by Dr. Hoffman now aggregates over 5,000 specimens.

About 800 specimens of local Hymenoptera have been placed on exhibition.

From July 10 to August 10 the Curator spent his time in the Black Mountains in western North Carolina for the purpose of collecting material. Over 3,000 specimens were obtained, all of which have been mounted. The results of the expedition are such as to warrant the continuation of the researches.

Field work in the vicinity of New York has resulted in the addition of many rare species to our local collection.

A monograph of the Sesiidæ, a work containing about 150 pages, with eight colored plates, has been prepared for the Memoirs.

LIBRARY.—The report of the Librarian reveals an increase of 9,157 volumes, making a total of 52,689 volumes. The most notable addition to the Library is the gift of General Egbert L. Viele, U. S. A., of 1,136 volumes, 960 Nos., 1,833 pamphlets and 66 maps. Many of these works enable the Librarian to complete unfilled series which were very difficult to obtain.

The Museum is also indebted to the Honorable Amos E. Cummings and the Honorable William Astor Chanler for contributions of government publications required to complete missing numbers.

The Duke of Loubat has also donated a number of very valuable and rare works pertaining to anthropology.

DEPARTMENT OF PUBLIC INSTRUCTION.—Prof. Albert S. Bickmore has delivered the regular courses of lectures under the terms of the contract with the State Superintendent of Public Instruction, and has given two courses of four lectures each to the members of the Museum by request of the Trustees.

The free lectures delivered on Tuesday evenings under the auspices of the Board of Education have been attended by large and appreciative audiences. Several courses of lectures have been delivered under the auspices of Columbia University on Saturday evenings.

In compliance with the request of the President, Mr. Frank M. Chapman, Assistant Curator of the Department of Vertebrate Zoölogy, gave a series of six lectures to the members of the Museum and the Audubon Society.



The lectures were given at the Museum on Saturday afternoons and were illustrated with stereopticon views.

LECTURES TO THE TEACHERS OF THE PUBLIC SCHOOLS.

PROF. ALBERT S. BICKMORE.

*Spring Course, 1900.*

- Jan. 20, 27.—The Philippines in 1899.  
Feb. 3, 10.—Guam to Honolulu.  
“ 17, 24.—Hawaiian Islands—Kauai, Molokai and Maui.  
Mar. 3, 10.—The Riviera—Genoa to Marseilles.  
“ 17, 24.—The Pyrenees.

*Autumn Course, 1900.*

- Nov. 3, 10.—Introductory—International Exhibitions, from London in 1851 to Chicago in 1893.  
“ 17, 24.—Paris Exposition of 1900—The Avenue of Nicholas II. and the Esplanade of the Invalids.  
Dec. 1, 8.—The Street of Nations and the Gardens of the Trocadero.  
“ 15, 22.—Champ de Mars.

*Holiday Course, 1900.*

- New Year's Day.—The Hawaiian Islands.  
Washington's Birthday.—Alaska.  
Thanksgiving Day.—Introductory—International Exhibitions, from London in 1851 to Chicago in 1893.  
Christmas.—Paris Exposition of 1900—The Avenue of Nicholas II. and the Esplanade of the Invalids.

MEMBERSHIP COURSE. PROF. ALBERT S. BICKMORE,

*Spring Course.*

- Mar. 8.—The Philippines in 1899.  
“ 15.—Alaska.  
“ 22.—The Riviera.  
“ 29.—The Pyrenees.

*Autumn Course.*

- Nov. 22.—Introductory—International Exhibitions, from London in 1851 to Chicago in 1893.  
Dec. 6.—Paris Exposition of 1900—The Avenue of Nicholas II. and the Esplanade of the Invalids.  
“ 13.—The Street of Nations and the Gardens of the Trocadero.  
“ 20.—Champ de Mars.

COLUMBIA UNIVERSITY COURSE.

ASTRONOMY.

Prof. J. K. Rees, of Columbia University.

- Jan. 6.—Comets and Meteors.  
“ 13.—Recent Interesting Achievements of Astronomical Photography.  
“ 20.—The Solar Eclipse of May 28, 1900; Path of Totality Across the United States.  
“ 27.—South American Observatories: Their Instruments and Work.



- Nov. 6.—Japan.....Mr. A. C. Maclay.  
 “ 13.—Japanese Feudalism and Its Castles.....Mr. A. C. Maclay.  
 “ 20.—China and the Chinese. ....Mr. Guy Morrison Walker.  
 “ 27.—Imperial India.....Dr. John C. Bowker.  
 Dec. 4.—“Burmah.”.....Mr. Gerhard J. Schilling.  
 “ 11.—The Muslim World.....Dr. Thomas P. Hughes.  
 “ 18.—Asiatic Manners and Customs.....Mr. George Donaldson.

THE NEW YORK BOTANICAL GARDEN.

- Apr. 5.—Report of Progress on the Development of the Garden.  
 Dr. N. L. Britton.  
 “ 12.—The Relation of Light and Color to Plants.....Dr. D. MacDougall.

THE LINNÆAN SOCIETY OF NEW YORK CITY.

- Jan. 11.—A Naturalist in Cuba.....Mr. Frank M. Chapman.

THE NEW YORK MINERALOGICAL CLUB.

- Jan. 18.—Geysers; their Action and Mineralogical Products.  
 Dr. T. A. Jaggar, Jr.  
 “ 25.—The Black Hills of South Dakota; their Geology and Mineralogy.  
 Dr. E. O. Hovey.

PUBLICATIONS.—The publications issued by the Museum during 1900 greatly exceed those of any preceding year. They include Vol. XIII of the Bulletin, consisting of pages i-x, 1-330, with 19 plates and 216 text figures; Part III of Volume XI, pages 189-356; Part VI of Volume I of the Memoirs; Parts IV, V and VI of Volume II, completing the Volume, and Part I of Volume IV. Also Part I of the “Ethnographical Album of the North Pacific Coast of North America and Asia,” and five numbers of “The American Museum Journal,” the publication of which was begun during the present year. The list of articles in the Bulletin and Memoirs published in 1900, arranged by Departments, is as follows:

DEPARTMENT OF INVERTEBRATE PALÆONTOLOGY.

Catalogue of Types and Figured Specimens in the Palæontological Collection of the Geological Department, American Museum of Natural History. By R. P. Whitfield, assisted by E. O. Hovey. (Bull. XI, pp. 189-356.)

Observations on and Descriptions of Arctic Fossils. By R. P. Whitfield. (Bull. XIII, pp. 19-22, pll. i and ii.)

Description of a New Crinoid from Indiana. By R. P. Whitfield. (Bull. XIII, pp. 23, 24, pl. iii.)

Note on Principal Type Specimen of *Mosasaurus maximus* Cope, with illustrations. By R. P. Whitfield. (Bull. XIII, pp. 25-29, pll. iv and v.)

Note on an Interesting Specimen of Calcite from Joplin, Missouri. By L. P. Gratacap. (Bull. XIII, pp. 95-97, pl. vi, and 4 text figures.)

## DEPARTMENT OF VERTEBRATE ZOOLOGY.

The Mountain Caribou of Northern British Columbia. By J. A. Allen. (Bull. XIII, pp. 1-18, 18 text figures.)

Some Results of a Natural History Journey to Northern British Columbia, Alaska, and the Northwest Territory, in the Interest of the American Museum of Natural History. By A. J. Stone. (Bull. XIII, pp. 31-62, 5 text figures.)

Note on the Wood Bison. By J. A. Allen. (Bull. XIII, pp. 63-67.)

List of Bats Collected by Mr. H. H. Smith in the Santa Marta Region of Colombia, with Descriptions of New Species. By J. A. Allen. (Bull. XIII, pp. 87-94.)

List of Birds Collected in the District of Santa Marta, Colombia, by Mr. Herbert H. Smith. By J. A. Allen. (Bull. XIII, pp. 117-184.)

Note on the Generic Names *Didelphis* and *Philander*. By J. A. Allen. (Bull. XIII, pp. 185-190.)

Descriptions of New American Marsupials. By J. A. Allen. (Bull. XIII, pp. 191-199.)

On Mammals Collected in Southeastern Peru by Mr. H. H. Keays, with Descriptions of New Species. By J. A. Allen. (Bull. XIII, pp. 219-227.)

A Study of the Genus *Sturnella*. By Frank M. Chapman. (Bull. XIII, pp. 297-320, 8 text figures.)

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

A Cranial Variation in *Macropus bennetti*. By B. Arthur Bensley. (Bull. XIII, pp. 109, 110, 1 text figure.)

A New Species of Pleistocene Horse from the Staked Plains of Texas. By J. W. Gidley. (Bull. XIII, pp. 111-116, 5 text figures.)

Phylogeny of the Rhinoceroses of Europe. (Rhinoceros Contribution No. 5.) By Henry Fairfield Osborn. (Bull. XIII, pp. 229-267, 16 text figures.)

*Oxyena* and *Patriofelis* Restudied as Terrestrial Creodonts. By Henry Fairfield Osborn. (Bull. XIII, pp. 269-279, pll. xviii and xix, 4 text figures.)

## DEPARTMENT OF ANTHROPOLOGY.

Symbolism of the Arapaho Indians. By Alfred L. Kroeber. (Bull. XIII, pp. 69-86, 138 text figures.)

A Shell Gorget from Huasteca, Mexico. By Marshall H. Saville. (Bull. XIII, pp. 99-103, 3 text figures.)

An Onyx Jar from Mexico, in Process of Manufacture. By M. H. Saville. (Bull. XIII, pp. 105-107, pl. vii.)

Cruciform Structures near Mitla. By Marshall H. Saville. (Bull. XIII, pp. 201-218, pll. viii-xvii, 8 text figures.)

A Bilateral Division of the Parietal Bone in a Chimpanzee, with a Special Reference to the Oblique Sutures in the Parietal. By Aleš Hrdlička. (Bull. XIII, pp. 281-295, 6 text figures.)

The Thompson Indians of British Columbia. By James Teit. Edited by Franz Boas. (Mem. II, pp. 163-392, pll. xiv-xx, 198 text figures.) Completed and published April, 1900.

Basketry Designs of the Salish Indians. By Livingston Farrand. (Mem. II, pp. 393-399, pll. xxi-xxiii, 15 text figures.)

Archæology of the Thompson River Region. By Harlan I. Smith. (Mem. II, pp. 401-442, pll. xxiv-xxvi, 51 text figures.)

Symbolism of the Huichol Indians. By Carl Lumholtz. (Mem. III, pp. 1-228, pll. i-iv, 291 text figures.) Completed and published May, 1900.

Traditions of the Chilcotin Indians. By Livingston Farrand. (Mem. IV, pp. 1-54.)

Cairns of British Columbia and Washington. By Harlan I. Smith and Gerard Fowke. (Mem. IV, pp. 55-75, pll. i-v.)

Ethnographical Album of the North Pacific Coasts of America and Asia. (Part I, pp. 1-5, pll. i-xxviii.)

DEPARTMENT OF ENTOMOLOGY.

A Monograph of the Sesiidæ of America, North of Mexico. By William Beutenmüller. (Mem. I, pp. 218-352, pll. xxix-xxxvi, 24 text figures.)

The American Museum Journal. (Vol. I, Nos. 1-5.)

I desire to here record my hearty appreciation of the kind coöperation given by the city government in furthering the interests of the Museum as regards its maintenance and its equipment for the purposes of exhibition.

I extend an expression of my sincere thanks to the Trustees for their assistance in administering the affairs of the Museum and to those persons who have aided the Museum by gifts of money or specimens.

I also desire to express on behalf of my colleagues and myself our appreciation of the able and loyal service rendered by the heads of departments and their assistants in the various activities of the Museum.

MORRIS K. JESUP,  
*President.*

ADDENDA.—Since the preparation of this report the Trustees have formally received from Mr. J. Pierpont Morgan, on behalf of the Museum, the Bement Collection of Minerals and the Tiffany Collection of Gems, the largest individual gift the Museum has ever received. A description of these collections will be given in the next Annual Report.

THE AMERICAN MUSEUM OF NATURAL HISTORY

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MAINTENANCE.

RECEIPTS.

Department of Parks.....	\$120,000 00
Cash deficit Dec. 31, 1900.....	9,110 18

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\$129,110 18

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Examined { ANSON W. HARD, } *Auditing*  
and approved, { GEORGE G. HAVEN, } *Committee.*

Correct.—E. L. MASSETT, *Auditor.*

*MAINTENANCE.*

DISBURSEMENTS.

Expressage.....	\$257 19
Printing.....	108 20
Postage.....	314 00
Coal.....	7,970 96
Labels.....	1,566 46
Stationery.....	891 16
Interest on Debit Balances.....	9 37
Poison.....	123 50
Annual Report.....	191 45
Supplies.....	5,737 32
Salaries.....	52,411 22
Fixtures.....	1,464 80
Labor.....	54,483 88
General Expenses.....	3,239 41
Repairs.....	341 26
	<hr/>
	\$129,110 18

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *January 22, 1901.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT.

RECEIPTS.

Cash on hand Jan. 1, 1900, including subscriptions for Pamphæan Collection of Fossil Mammals (\$8,000) paid in and unexpended.....	\$9,681 29
Special Loan.....	10,000 00
State Superintendent of Public Instruction.....	12,000 00
Annual Members.....	8,840 00
Life Members:	
C. R. Agnew.....	\$100 00
Geo. B. Agnew.....	100 00
Thomas Baring.....	100 00
J. O. Bartholomew.....	100 00
Bertrand F. Bell.....	100 00
Wm. Brewster.....	100 00
Joseph Bushnell.....	100 00
Hugh J. Chisholm.....	100 00
Lester B. Churchill.....	100 00
Frederic Cromwell.....	100 00
Eugene Delano.....	100 00
Anthony Dey.....	100 00
Miss Ethel DuBois.....	100 00
Wm. A. DuBois.....	100 00
Horace Gray.....	100 00
E. H. Harriman.....	100 00
George B. Hopkins.....	100 00
Samuel N. Hoyt.....	100 00
Archer M. Huntington.....	100 00
Frank D. Hurr.....	100 00
Dr. Walter E. James.....	100 00
James W. Knauth.....	100 00
John B. Lawrence.....	100 00
John R. Livermore.....	100 00
Francis E. Markoe.....	100 00
Mrs. E. C. Moore.....	100 00
Wm. Trotter.....	100 00
Miss H. Olive Trowbridge.....	100 00
Mrs. Charles Boughton Wood.....	100 00
Fellow: John L. Cadwalader.....	2,900 00
Patron: Percy R. Pyne.....	500 00
Admission Fees.....	1,000 00
Collecting Permits.....	1,381 50
Sale of Guides.....	39 00
"    Publications.....	15 00
Interest on Invested Funds, including "John B. Trevor Fund" and "Josiah M. Fiske Fund.".....	189 63
B. T. B. & F. E. Hyde, Jr., for Hyde Explorations.....	19,035 00
Frederick E. Hyde, Sr.....	2,304 64
Henry F. Osborn.....	700 00
Archibald Rogers.....	2,000 00
Miss Matilda W. Bruce.....	100 00
Joseph F. Loubat, for Mexican Expedition.....	200 00
Henry E. Pickering, for Local Archaeological Research.....	4,000 00
Sale of Casts.....	50 00
Freight Rebate.....	70 00
Morris K. Jesup for Jesup North Pacific Expedition.....	27 93
C. P. Huntington, { For North {.....	19,907 10
Henry Villard, { American Indian {.....	2,000 00
Mrs. Morris K. Jesup, { Research. {.....	1,000 00
James M. Constable, for Mexican Expedition.....	1,600 00
	500 00
	<u>\$100,041 09</u>
Examined { ANSON W. HARD, { Auditing Committee.	
and approved, { GEORGE G. HAVEN, {	
Correct.—E. L. MASSETT, Auditor.	



# ENDOWMENT.

## DISBURSEMENTS.

Postage.....	\$67 56
Printing.....	275 90
Stationery.....	258 60
General Expenses.....	1,639 13
Hyde Explorations.....	2,304 64
Bulletin (publication of).....	11,141 73
Jesup North Pacific Publication.....	170 50
Annual Report.....	579 50
Labels.....	652 72
Fixtures.....	412 18
American Museum Journal.....	1,516 40
Pan American Exposition Exhibit.....	583 38
Transfer to Permanent Endowment Fund for purchase of bonds..	544 47
Minerals.....	732 81
Geology.....	126 83
Invertebrate Zoölogy.....	46 95
Vertebrate Zoölogy.....	2,677 35
Mammal Groups.....	196 69
Bird Groups.....	74 45
Skeletons.....	650 06
Vertebrate Palæontology.....	7,413 28
Anthropology.....	4,637 23
Ethnic Groups.....	1,126 37
Ethnology.....	317 65
Library.....	1,401 89
Department of Public Instruction.....	9,740 70
Jesup North Pacific Expedition.....	19,907 10
North American Indian Research.....	4,604 92
Mexican Expedition.....	5,345 99
Lumholtz Expedition.....	305 00
Peruvian Expedition.....	2,285 58
Jesup Siberian Expedition.....	1,109 00
New York State Archaeological Explorations.....	470 00
Belmar Collection of Mexican Antiquities.....	500 00
Constable Northwest Territory Expedition.....	114 33
Receptions.....	726 15
Cash on hand, December 31, 1900.....	15,384 11
	<u>\$100,041 09</u>

Cash on hand in Endowment Account.....	\$15,384 11
Cash deficit in Maintenance Account.....	9,110 18
Cash on hand December 31, 1900.....	<u>\$6,273 93</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *January 22, 1901*

## CONTRIBUTIONS

### NOT NOTED IN THE TREASURER'S REPORT.

Mrs. Josiah M. Fiske.....	\$10,000 00
Mr. George A. Hearn.....	1,000 00

Deposited in the Permanent Endowment Fund for investment.

### JOHN B. TREVOR FUND.

PRINCIPAL \$10,000.

Invested in railroad bonds: Income..... \$450 00

### JOSIAH M. FISKE FUND.

PRINCIPAL \$10,000.

Invested in railroad bonds: Income..... \$420 00

Income to be expended in the discretion of the Trustees.

## CHAPTER 185.

AN ACT to provide for additions to, and further improvements and equipment in the buildings occupied by the American Museum of Natural History in the Central Park of the city of New York.

Accepted by the city.

Became a law March 22, 1900, with the approval of the Governor. Passed, three-fifths being present.

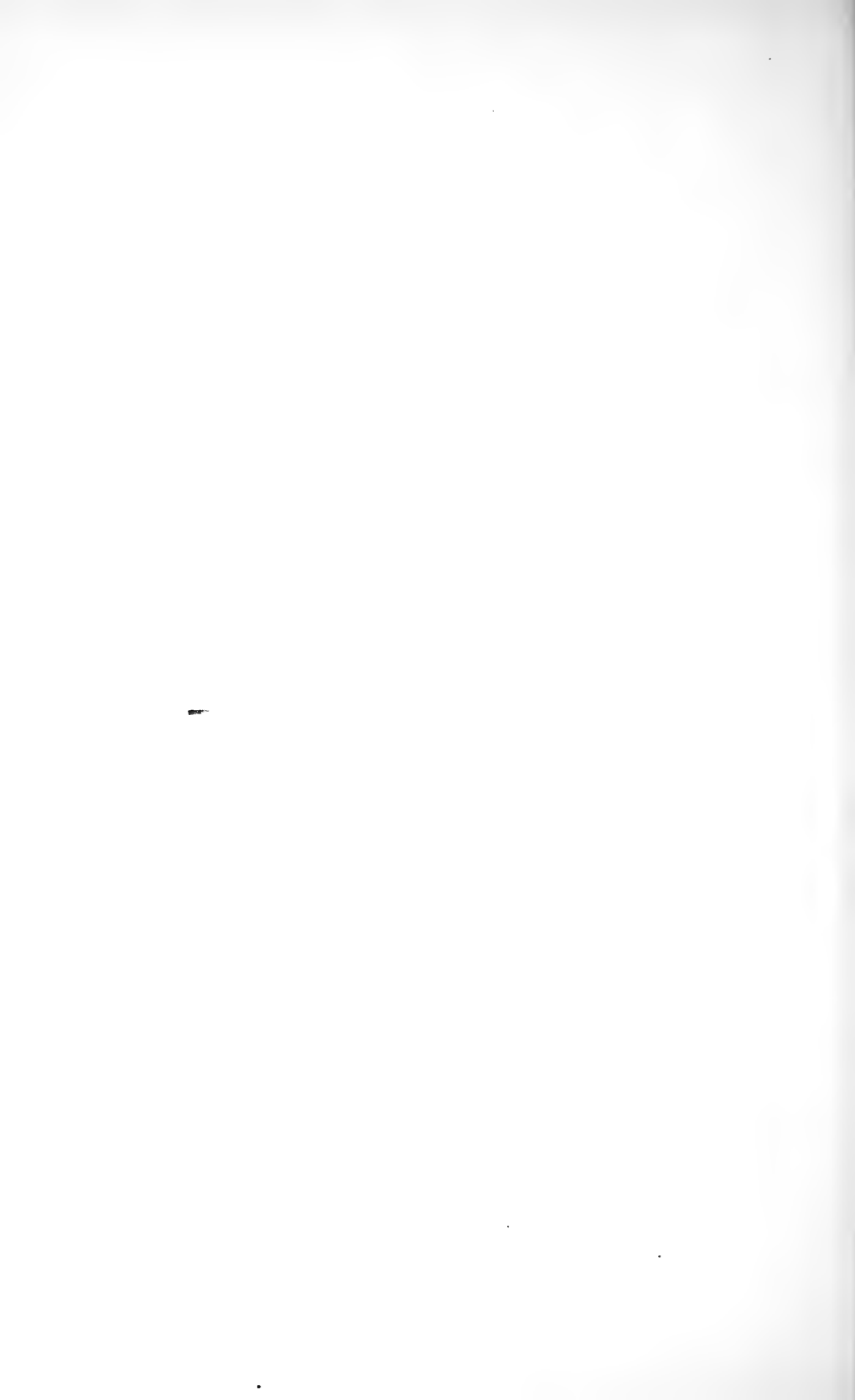
*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. The department of parks in the city of New York, when the board of estimate and apportionment in the exercise of its discretion has consented and concurred, is hereby authorized to complete, equip and furnish the east and west wings and erect elevators for the same ; provide additional cases where required in the old buildings, repair and alter the halls of the same structure, and to erect a boiler-house, and equip the same with an increased heating and lighting plant required for the additions made to the building in the city of New York, borough of Manhattan, now occupied by and in possession of the American Museum of Natural History. The trustees of the said museum shall select the architects to prepare, under their direction, the plans, and to superintend, under the direction of the department of parks, the construction of the said addition, equipment and alterations. Said plans, when completed, shall be submitted by said trustees to the said department for its approval, and may include such alterations, improvements and repairs to said structure as the said department and the said trustees of the said museum may agree are proper and necessary. The said department shall provide for the compensation of the architects out of the fund hereby provided for the said structure, equipment and alterations. The said equipment shall include all cases, fittings and other apparatus required for the work herein described.

§ 2. For the purpose of providing means for the carrying into effect the provisions of this act, it shall be the duty of the comptroller, upon being thereunto authorized by the board of estimate and apportionment, to issue and sell corporate stock of the city of New York, in the manner now provided by law, to an amount not exceeding in the aggregate the sum of three hundred and fifty thousand dollars.

§ 3. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed.

§ 4. This act shall take effect immediately.



ADDRESSES DELIVERED  
AT THE  
OPENING OF THE AUDITORIUM  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,

Seventy-seventh Street and Central Park West, New York City,

*Wednesday, October 30, 1900.*

*Opening Address of Morris K. Jesup, President of the Museum.*

"MEMBERS OF THE AMERICAN MUSEUM OF NATURAL HISTORY, LADIES AND GENTLEMEN: I am commissioned by the Board of Trustees to give you a hearty welcome to this new Auditorium, which has just been completed. It is intended that these exercises shall be brief, in order that you may have an opportunity to visit the adjoining halls of exhibition

"Before the Trustees can act with reference to this important addition to the Museum Building, it becomes necessary that a formal presentation be made to the Museum authorities by the proper municipal authorities, and therefore, without further ceremony, I introduce the Hon. George C. Clausen, President of the Department of Parks of the City of New York, and Commissioner of the Boroughs of Manhattan and Richmond."

Address of the Honorable GEORGE C. CLAUSEN, President of the Department of Parks, presenting the building on behalf of the City to the Trustees of the American Museum of Natural History:

*Mr. President, Ladies and Gentlemen:*

In a little more than thirty years the Museum of Natural History, in the City of New York, has grown from a very meagre and poorly housed nucleus to the grand and inspiring proportions which you now look upon—proportions of such majesty and beauty as to excite the admiration not only of scientists and art lovers everywhere, but also of all men of taste and refinement. The history of the institution is in many ways unique and in every way interesting. It was in the year 1869 that a little band of public-spirited men, headed by John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, Wm. A. Haines, Theodore Roosevelt, Howard Potter, Wm. T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Charles A. Dana, Joseph H. Choate and

Henry Parish, was created by the Legislature a body corporate to be known as the American Museum of Natural History, and to be located in the City of New York, for the purpose of establishing and maintaining a museum and library, to encourage and develop the study of natural science, to advance the general knowledge of kindred subjects and to furnish popular instruction in them.

At this time the exhibits of the Museum were tolerated in a few cramped and unsightly rooms of the old Arsenal on the Fifth Avenue side of the Park. To-day many of the exhibits of the institution are known to men of scientific research in every civilized country, and it is nowhere disputed that the Museum buildings themselves are admirably fitted for the display of the priceless treasures which they contain. These results have been brought about by a singularly original combination of partnership, which, under sanction of the law, has been entered into by the citizens of New York in their corporate capacity and the President and Trustees of the Museum. Under this exceedingly felicitous arrangement, it is mutually agreed that the City shall pay for the erection of the buildings and for their maintenance, while the Trustees have taken upon themselves the responsibility of providing the exhibits, the library, the lectures and other means of instruction and mental recreation. This arrangement is perpetual, irrevocably binding upon both parties. It is expressly stipulated that the contract shall continue for all time. By it Manhattan Square is given over to the uses of the Museum. It is provided that suitable buildings shall be erected thereon at the cost of the City; that they shall be properly maintained and policed by the City; that the exhibits shall be supplied by the Association; and that the Museum, in its entirety, shall be under the sole control and management of the Trustees for the free use and benefit of all the people. Both parties to this agreement have faithfully lived up to the compact, which happily both have regarded as sacred. The Trustees, on the one hand, headed by their wise and far-seeing, high-minded and open-handed President, Morris K. Jesup, have made the people of the Western Metropolis in very truth "the heirs of all the ages" by spreading before them in most attractive form evidences of the development and progress of the earth and of man from the earliest time until the present day. The City, on its part, has kept faith by providing with lavish hand the money with which to erect and maintain these magnificent halls.

The first building cost \$700,000. Under the laws of 1877 an addition was provided for at a cost of \$800,000. Later on the east wing was completed at a cost of \$550,000, while under the laws of 1895 and 1896 two other additions were made, the one costing \$510,000 and the other \$500,000. In 1897 an additional half million was provided for the completion and equipment of these wings. The cost of all the buildings and their equipment, from first to last, has been in round numbers \$3,500,000, while the sum expended for maintenance up to the present day has been \$972,000. And, sir, as the representative here of the City Government, I think that I may fittingly congratulate the present administration, the administrations which have gone before it, the Trustees of the Museum, and all the people, upon the fact that in all these vast expenditures there has never been even a suspicion of party self-seeking or the slightest hint of the diversion of one dollar for a political or unworthy purpose! To the credit of the City it can be proudly said that all its representatives, during the thirty years of its contract with the Trustees, have with scrupulous fidelity lived up to its part of the bargain for common good.

The City has cheerfully and liberally provided the buildings, policed and maintained them, but never in the slightest degree has it attempted to interfere with the management of the Museum. Such management, the control of the exhibits, of the library, of the lectures, and of everything pertaining to them, has most properly been left entirely within the control of the very competent gentlemen who have been trained for such service. It is only by holding firmly

to this policy that our noble institution has progressed so marvelously in the past, and will continue to progress in the future.

In this spirit, Mr. Jesup, holding steadily to the views which I have expressed, and in obedience to the law, it is now my duty and very great pleasure to turn over to your competent custody, and the custody of your fellow-Trustees, these new halls of the American Museum of Natural History.

*Address by Morris K. Jesup, President, accepting the Building on Behalf of the Trustees.*

“PRESIDENT CLAUSEN: On behalf of the Trustees of the American Museum of Natural History, I receive this beautiful edifice and acknowledge the kindly views which you have expressed. These, sir, are fully reciprocated, not only by myself, but by the Trustees, whom I have the honor to represent.

“You quite touched my heart, Mr. Clausen, when you spoke of the kindly interest that has always existed between the several departments of the City Government and this Museum. I want to say that during my twenty years administration as President there has not been one word of discord, or even of disagreement, between this institution and the city authorities. On the other hand, the kindest sympathy and coöperation have always existed.

“LADIES AND GENTLEMEN: There are three departments of this Museum,—the department of science, the department of exhibition, and the department of education. The first of these—science—provides the material which makes the others possible. Science indicates the direction that our exploring expeditions shall take; it determines what material shall be collected, and how this material may be exhibited to obtain profitable educational returns. How profitless is mere exhibition without instruction!

“We are met together to-night to consecrate this magnificent hall to the cause of education, and you will soon be addressed by those who are competent to speak on this subject.

“It would not be right for me to close my remarks without mentioning the architects who have planned, designed and constructed this hall. I refer to Messrs. Cady, Berg & See. These gentlemen have had in charge the construction of this Museum almost from the beginning, and you yourselves are the best judges of the way in which they have performed their duties.

“Mr. Clausen has made mention of what the city has given to this great enterprise, and it is proper, therefore, for me to mention what Trustees and friends have given. While it is impossible to make an accurate statement, I think I am justified in saying that the contributions of money and the cash value of the collections aggregate upwards of \$3,000,000. While Mr. Clausen has called attention to the generous amount contributed by the city toward the maintenance of this institution since its opening, namely, the

sum of \$900,000, you should know that even this large sum has not been sufficient to pay our running expenses. Nearly every year the Trustees have willingly, yes, cheerfully, contributed from \$15,000 to \$30,000 to make up an inevitable deficiency.

"I might continue and say many things about this Museum,—its past, its present and its future,—but I will not take up time.

"I will now ask the Hon. Bird S. Coler, the comptroller in charge of the finance department of the City, to say a few words."

Address by the Hon. BIRD S. COLER, Comptroller of the City of New York :

*Mr. President, Ladies and Gentlemen :*

It is a great pleasure and honor for me to be here this afternoon and to say a little something to you about the City of New York, and something, maybe, about an idea, or a scheme of education. The present City of New York is the result of the consolidation of ninety separate corporations. I will not worry you with the details of that consolidation, or with a few of our troubles up to the present time ; but, merely to show you the magnitude of our city in a comparative sense, I would say that we have a population of over 3,500,000 ; that the bonded debt of the City of New York is more than the bonded debt of all the States in the Union combined ; that half of that debt is self-sustaining through the earnings of our water department and our docks. Looking at our expenses, the combined expense of the City of New York, of bond and appropriation accounts, is more than five times that of the State of New York itself, is two-thirds of that of the States of the Union, and is one-seventh of that of the National Government itself. For educational purposes we are now expending in the neighborhood of \$20,000,000 a year ; that is, the cost of education for the greater city is more, by several millions of dollars, than the entire cost of running the old city of Brooklyn—a city of over a million people—in all its branches and for all purposes. So you can see the immense sum that is required for purely educational purposes. It is nineteen per cent. of your entire budget.

Now, it seems to me that the time has come when we have got to face the enormous increase in expenditures for educational purposes in an intelligent and fair and practical way. Maybe there is a legitimate reason why we should give every child in the City of New York a college education. Maybe some one may argue that it would be the best thing for the city to force every one to take a higher education. In the last few years that seems to have been brought to the front—the idea that the higher development must come through a system of schools that would lead up to every one getting a higher education. I think the idea is right to a large degree, but we must face it in a way that will not increase the cost to such an extent that it will make taxation in this city a tremendous burden. We have, as I have said, \$20,000,000 a year, or in that neighborhood ; that is, the bond appropriations and the appropriations for the schools themselves ; and it seems to me that we can work together upon an idea that will bring forth all there is in education, and upon a basis with which every one can be satisfied, both those who believe in higher education and those who believe in not expending quite so much money for the various purposes.

I believe it is a fact that nearly ninety per cent. of our children leave our schools before the age of fifteen years. A great many parents cannot afford to allow their children to remain in the schools beyond that time. It seems to me that we should have a definite system of education that, up to that age, would be practically complete as far as it went, but then, instead of allowing every one to force their children to go higher at the cost and expense of the city (because, as a general rule, those who can afford to leave their children in schools after



the age of fifteen can afford to pay something towards their maintenance), we should still have our high schools and our colleges, but we should allow only those to go up who show by their ability and their genius that it would pay the city to give them the higher education.

To-day our high schools and our College of the City of New York are crowded with children, the only purpose of whose parents is to keep them at education and to keep them from going into business until they get older,—children who have shown no particular ability for a higher education. I do not believe that they are entitled to it at the expense of the city; nevertheless I do believe that it is a paying investment for the city to have high schools and the College of the City of New York, and, if needs be, to purchase scholarships in the other great colleges; so that when a boy leaves the grammar school he can earn the right to enter the high school by a fair examination. This ought not to be made so hard that it would preclude boys who were serious and had an honest intent and wanted to educate themselves. The examination ought to be so graded that these boys would have the chance to work their way up to and through a college, even at the expense of the city. Then, when a boy or a young woman came out of one of those schools, they would be known as a man or a woman who had earned their education at the hands of the City of New York.

But what is to be done with the great mass, the ninety per cent. that have to leave at the age of fifteen? I believe the city owes more to them by far than it owes to the children who are kept in there, not because they show any ability, but merely because their parents wish to keep them in school at the cost of the city. I believe that the great ninety per cent. are entitled to an opportunity to acquire for themselves an education while they are at work, and while they are helping to support their families. The greatest part of education (I know it is so in my own case, with the little education that I have) is acquired after leaving school; and now, throughout the great City of New York, we are beginning to recognize the fact of supplemental education. To-day the Board of Estimate has before it a request for an appropriation of \$3,000,000 to complete the great public library at Forty-second Street and Fifth Avenue. That will be granted in a few days. Throughout the Borough of Brooklyn, in the last two years, we have established five separate free circulating libraries. This year we have made an appropriation that will allow the development of double that number. All through the City of New York we are trying to develop a policy of supplemental education.

That brings the question down right here to your own great enterprise and the enterprise of the Metropolitan Museum of Art; and it is a great pleasure for me to be here and to state to you that I believe that this Institution is one of the greatest starting points for a supplemental education in the City of New York. The development also throughout our city of the free lecture system, of which Professor Leipziger, who is here this afternoon, is the head, will do more good to our city than the system of allowing parents to force a higher education at the expense of the city. Let us give the great ninety per cent. a chance to get ahead and make something of themselves in the world.

As regards the appropriations for your Institution, I think this year you will get over \$130,000 for maintenance. I do not know how far that will go, but I think it will go a great deal farther than the last year's money went.

We are facing in the City of New York a great problem. The problem, to my mind, of the government of the United States itself, is the problem of city life and city government; and it is only by the development of the individual citizen, so that he has a better knowledge, a better education, and a better interest in public affairs, that we shall ever have a better permanent government; and I believe it is the duty of every intelligent person, man or woman, to do something for the great mass of our children that have to leave the schools before the age of fifteen.

I thank you for your attention.

*Remarks by President Jesup, introducing Dr. H. M. Leipsiger, Ph.D., Supervisor of Lectures of the Board of Education.*

"I expected to have the pleasure of welcoming here to-night Mr. Miles M. O'Brien, President of the Board of Education, but I received this telegram from him a few minutes ago :

" 'I regret exceedingly that unavoidable circumstances prevent me from tendering you in person my hearty congratulations on the opening of the new lecture hall, which adds a new and important link to the educational chain of our great city, and of which all our citizens may be proud.'

"Fortunately we have another representative of the Board of Education, Prof. H. M. Leipsiger, whom I have the pleasure of introducing."

Address by Dr. HENRY M. LEIPZIGER, Ph.D., Supervisor of Lectures of the Board of Education :

*Mr. President, Ladies and Gentlemen :*

Twenty-five years ago, in the address made by Prof. Henry on the occasion of the laying of the corner stone of this noble Institution, which is gradually assuming its proper dimensions, he called attention to the spiritual side of the Museum, and in his address used these words : "How incomparably greater would the importance of this Museum be were there connected with it a professor, who, at stated periods of the year, would give courses of free lectures on the objects which it contains, who would expound the laws of the phenomena of nature, who would discourse on the changes the world has undergone during geological periods. What an effect an Agassiz would have, not only in enlightening the heads, but warming the hearts, of his audience !"

Less than a generation has passed since these words of the distinguished scientist were spoken, and his hope is nobly realized in this beautiful hall dedicated to the spread of the knowledge of science for the service of man.

This vast Museum and this lecture hall bear testimony to the belief of the American people, not alone in the value, but in the necessity of education, and their belief that the term should have the widest possible interpretation, that it should begin at the kindergarten, and include the university, the public library and the public museum, and it should know no limit as to age or sex. In the spirit of this belief, both private philanthropy and public munificence have joined in producing the transformation scene which we witness to-day, and which is but an earnest of what is yet to be.

In President Jesup's address of eight years ago he stated that this Museum offers to the "masses of the Empire City a home where they may find that recreation, entertainment and education which serves to elevate and ennoble their life and character." That it has fulfilled—and will fulfil in increasing measure—these purposes, no one can doubt who has observed the thousands who enter these halls, or the crowds who, during the past eight years, have attended the lectures that have been given. The influence of the Museum and the lectures in widening the mental horizon of the listener, who can measure ! Some, perhaps, are soothed and recreated, others are inspired and stimulated to reading and study.

"That stick has been round the world," exclaimed a man to Sydney Smith, as he held out to him a valued cane. "Dear me," was the reply, "and yet it is only a stick after all." To decrease the number of sticks in the world, to increase the number of men who can observe, can compare, classify and *think*, is the purpose of the teaching of science. To increase the number of those in a great city who shall take a delight in nature and its wonders, who shall find

wholesome recreation therein, and thus find an antidote against life's sorrows and a strengthener against temptation, all this is furthered by the spread of scientific knowledge. And the collections, amply classified as they may be, fail, unless from the lips of the living teacher comes the flow of eloquence that vivifies the dead objects and makes the distant near.

Do not the facts in this Museum's history amply prove that the lecture, as a medium of instruction, was never more appreciated? For years past have the lectures by Prof. Bickmore attracted the teachers of our city, the lectures in coöperation with Columbia University have attracted the student, and those given by the Board of Education have attracted the masses. For five years past, through the generosity of the Trustees of this Institution, on each Tuesday evening this hall has been one of the forty or more lecture halls where courses of lectures under the auspices of the Board of Education have been given. The total attendance at the Hall of the Museum has been over twenty thousand each year. Rarely has there been a vacant chair, and often was the hall filled long before the time fixed for the beginning of the lecture. The topics of the lectures included travel and natural science, and, as at all our centres, the discovery was made that instruction was much preferred to entertainment. Who can rightly determine the influence of a museum and courses of lectures such as given here.

From a quarryman, Hugh Miller became a geologist, and while attending a course of four lectures by Sir Humphrey Davy, the immortal Faraday caught the inspiration which determined his career.

But in a broader sense these lectures contribute to the culture of our citizens, and nowhere is that culture more needed than in a democracy and in a city so cosmopolitan as our own. As a means of true refinement nothing is so potent as a love of nature.

The story is told that a few years ago a French priest, far advanced in years, was met in the heart of the Rockies. Upon being asked why he, at his time of life, was so far from home unattended, he replied: "Six months ago I lay, as I thought, at death's door. One night I dreamt that I appeared before my Maker and he said to me: 'My child, how did you like the beautiful world I gave you to dwell in?' I could make no reply, for I, who had for fifty years preached a better world, had never examined this one at all! Awaking from my dream, I vowed that I would at once proceed to see and to admire some of his works, and so here I am, going round the world."

To the thousand of toilers in this city what an opportunity is afforded by the lectures to the people to get glimpses of the great world. How, by means of the picture thrown on the screen, are the words of the lecturer clarified and intensified. The eye and the ear are both appealed to, and the knowledge thus gotten remains.

Great as is the educational value of these lectures, they are justified from the recreative side. The character of our pleasure is an index of our culture and our civilization. A nation whose favorite pastime is the bull-fight is hardly on a plane with one that finds pleasure in the lyceum hall. So if we can make the pleasure of our people consist in the delights of art, in the beauties of literature, and in the pursuit of science, and gradually turn them away from so much that is lowering, are we not doing a real public service? Is not refinement, too, one of the ends for which we are aiming—not alone knowledge, but culture; not alone light, but sweetness; and if we can turn our youth from the street corner to the temple of nature, are we not helping to that end?

The course of lectures given in coöperation with the Board of Education affords proof of the union of forces for good that is constantly strengthening, and of all agencies that should be so united, those engaged in education should form the closest bond. The schools of the city, the museums of the city and the libraries of the city should be closely connected. The auditor at the lectures or the observer of the collections should find on the shelves of the public library the book that will give the history of the specimen or increase his knowledge of

the subject of the lecture. Signs are not wanting that this union is becoming constantly closer. The widening of opportunity as a result of this union is in line with the policy of the Board of Education under its present energetic President, Mr. Miles M. O'Brien. The schools of our city were never before put to such varied uses. Evening schools, lecture halls, play schools, reading rooms and libraries are now found in our school buildings, all having as their purpose the bringing of the truths of science and the lessons of history within the reach of the common man. And this beautiful lecture hall, amply lighted and properly ventilated, the just pride of our city, serves another purpose. By contrast, it calls attention to the inadequate accommodations provided in many other places where lectures are held, and will speed the day when all the school lecture halls of the city will be properly equipped.

Finally, the uses of the lecture hall emphasize the fact that education is "not a thing for youth only, nor is it a thing for the favored classes only, but it belongs to all and to all periods of life." In this hall, rich and poor alike are welcome to learn the great lessons that nature teaches and to get from a knowledge of science the key to real happiness.

Of the seventy-five millions who dwell in our land, but a limited number have been systematically educated. To give the masses hope and knowledge, to teach the truth that "nothing is too late till the tired heart shall cease to palpitate," to give larger visions and lofty ideals, to put men and women in touch with noble souls, to bring beauty into the humblest home—all this is the result that will be accomplished through museums and lectures. And may this good work go on till all our people shall possess the truth that shall make them free.

*Remarks by President Jesup, introducing the Hon. Charles R. Skinner, State Superintendent of Public Instruction.*

"By a very happy arrangement with the State Department of Public Instruction, the course of lectures which has been so felicitously given by Professor Bickmore has been under the control of the Department of Education at Albany, and I am very happy that we have with us this afternoon the Hon. Charles R. Skinner, Superintendent of the State Department of Public Instruction, and I have great pleasure in introducing him to you."

Address of the Hon. CHARLES R. SKINNER, State Superintendent of Public Instruction :

*Mr. President, Ladies and Gentlemen :*

Let me congratulate you, Mr. President, upon the completion of this monument to free education in our great metropolis. It attests the generosity of the City of New York and is a testimonial to your excellent administration, aided as you have been by other generous friends of education. The growth of educational interests during the past few years is one of the wonders of this receding century, and gives us hope for the century to come.

I shall speak particularly in reference to the relations which for sixteen years the State Department of Public Instruction has sustained to the educational department of this Institution. These relations have been exceedingly close and pleasant, and I believe profitable to many thousands of the masses of the people of the State.

In 1884 the first act was passed which placed the Department of Visual Instruction here under the State Department of Public Instruction. This

provided for a free course of lectures to the teachers of the City of New York, and extended that system to the then nine normal schools situated in different portions of the State. It was a modest beginning, but any one interested in educational progress could foresee the great development that was bound to come—that will always come when you strike the heart of the people with an educational force. In 1891 this system was extended to the teachers' institutes of the State. A teachers' institute is a gathering of teachers in each of the counties of the State. This enables the system to reach annually more than 20,000 teachers. The country teachers (if you please) and their thousands of friends are brought in sympathy with this system of instruction. So it extended until 1895—four years afterward—when it was again broadened by an act of the Legislature, so that the lectures given and views exhibited here are now extended to all the cities and villages of the State, thus placing it within the power of the superintendent of schools in these cities and villages to reach nearly nine-tenths of the people of the State.

You remember, years ago we heard something about "object lessons." It was a new departure in education. The evolution of education is almost a revolution now. Here in this hall, and wherever these lectures are repeated (and they are, like the public school system, free to all mankind), the world is brought to our feet, and we see before us the different exhibitions which make us acquainted with every section of the world. In 1887 the then Superintendent of Public Instruction, referring to this system, said: "The system is new, but undoubtedly it is destined to have an important part in future educational work." In 1884, when the system first became connected with the State, the total State expenditures for education were \$12,000,000. Last year the total expenditures were \$28,000,000. So the expenditures of the State for schools and education have kept pace with the growth of this Institution. Surely we can all believe in "expansion" of education.

Since the Museum became connected with the State Department, Doctor Bickmore has prepared two hundred (200) lectures, covering all phases of education,—travel, history, biography, science, etc.,—and these lectures have been repeated in every portion of the State. More than 20,000 different stereopticon views have been prepared and exhibited. We are familiar with the growth of this system through inquiries which reach our State Department, and which daily reach Doctor Bickmore. Inquiries come from every county in the State, from smaller schools that are not entitled to these privileges, begging that they be extended to them. From every State in the Union come requests from State superintendents of public instruction for advice as to how they may secure the advantages which we enjoy. From every nation in the world come inquiries of the same nature. I have been shown a very interesting letter of inquiry from India, where the very purpose which this instruction serves here was presented as an educational influence upon the people of that country.

Not long ago Doctor Bickmore took this system in all its phases to exhibit at Paris. I wish he could tell you the many expressions of approval and interest which that exhibition excited. It is safe to say, however, that his mission was successful. He brings home from Paris a gold medal for the educational system which has made this Museum famous. No wonder Doctor Bickmore is in favor of the "gold standard."

Those who originated the scheme of this Museum are entitled to the commendation of every friend of education—of every man who believes that an educated child is better than an ignorant one. It is through this system, exemplified as it has been by what has been done for free lectures in this great city, that it is possible to carry this work all through the cities and villages of this great State. How to properly educate the masses of the people is the great educational problem before us all to-day, Mr. President, and the more we contribute to the education of the masses of the people, the more we can send education into the homes of our pupils, the more we shall contribute to their happiness and to the uplifting of city, state, country and the world.

As an illustration of the extent to which this system may be pursued, let me quote the one city of Syracuse, where, under the rules and regulations, we gave them one stereopticon, a copy of every lecture, and a set of the stereopticon slides accompanying it. The Board of Education in that city has purchased eight stereopticons, and has spent more for views every year than the State gives. The lectures are free to all the people. In the city of Watertown the city hall, almost as large a room as this, has been placed at the disposal of the superintendent of schools for the very purpose of repeating the lectures which have been given and will be given here.

Thus let us extend the power of this great system of education. Morally and intellectually it is an uplifting force in every community. In this way, by encouraging the broadening of the system by legislative enactment, let us keep at work, Mr. President, until all the people of the State are given the advantage of this medium of happiness and education. Let us, in other words, have a perpetual campaign of education.

*Remarks of President Jesup, introducing the Right Rev. Henry C. Potter :*

“Before inviting you to the treat which Professor Bickmore has in store for you, when you will see the wonderful power of our new equipment for throwing lantern pictures upon these great screens, I will ask our valued friend, Bishop Potter, to say just a few words.”

Address of the Right Reverend HENRY C. POTTER :

*Ladies and Gentlemen :*

There is an eminent propriety that somebody should say a few words who has no official connection with this undertaking. Their President, Mr. Clausen, has represented the Park Commissioners ; Mr. Coler has represented the City of New York on its financial side ; the President and Dr. Leipziger have represented this institution ; and Mr. Skinner has represented the great educational system which is one of the chief adornments of the Empire State ; but I confess I think you would agree with me that this occasion would be incomplete unless somebody represented the beneficiaries ; and I claim to be one of those—that large constituency, including, in one way or another, the millions of people that make up the City of New York, who are to derive, and have derived, the many and various benefits from the existence of the Museum of Natural History, in connection with the Metropolitan Museum of Art, of which we have heard something this afternoon.

I confess I followed with sympathy and admiration the line of remark in which Mr. Coler indulged in regard to the scheme of our popular education. I should like to go a step further and remind you of the fact, to which, I venture to say, every teacher in our public schools will bear witness, that a very large proportion of the boys and girls who are forced out of the public schools at the age of fifteen or thereabouts for the purpose of earning their own living, as well as the very considerable proportion of those who stay in the public schools, and discover for the next three or four years no particular aptitude in the direction of higher learning, discover it later in life.

Now, have we sufficiently recognized the relation of such a fact as this to these Museums of Natural History and of Art? With that later life, when school days are done, come, far oftener, I think, than most of us realize, two things, late awakening powers and curiosities and leisure.

What shall men and women who have done with school, but are hungry for knowledge, and conscious of idle hours and unemployed faculties, do with

them? Every new invention, every increased convenience, every clever substitute for the work of the hands, by the work of a machine or the product of a factory, gives multitudes of people more leisure hours, and with them, often I fear, idle monotony, but often also, I rejoice to believe, more disposition for their tasks and interests than the mere handicrafts of the shop or the household.

Last evening I spent a night in Ulster County under the roof of a friend, to whom I ventured to call attention to the interesting fact of the large decay of the old-fashioned handicrafts of women. I gave a few days from my own experience as illustrating the kind of hospitality, always kindly and generous, that one whose office is a very peripatetic one on one side of it so constantly experiences, and I described, among other things, the hospitable board of a good lady at which I had sat a little while before, on which, from the beginning to the end of the feast, there was not one single thing to be eaten which she had mixed with her own cunning, or knowledge, or cleverness. I inquired about the pressed tongue, the Boston brown bread, and preserves, as they came on in succession, and I learned that one had come from a shop, in a tin, another in a can, and another in a glass jar. I said to this lady: "Did it ever occur to you what is being lost out of our American life by the multiplication of inventions which are giving to us our food in prepared forms, and depriving the people who give it to us of the opportunity of preparing it for us?" "Ah, yes," she said, "but did it ever occur to *you* how much larger a leisure comes into the life of a woman who is thus released from the old tasks?" "Yes," I said, "I had thought of that. But what is she learning? What is she taught to do with her leisure?"

My friend, Dr. Leipziger, has reminded us of the privilege of the companionship of nature. But ask the people who live most in the environment of nature in its directest sense, how much they know about it? How much have they been trained to observe of a stone, or of a flower, or of a sky? And when they come into a realm of wider knowledge, how much has that higher culture, which it is the office of such an institution as this to give, been within their reach, or added to their knowledge?

I was standing in the Alhambra some years ago, listening with a party of tourists, English, American and other, to the description which the guide was giving us of the splendid hall in which we stood. He undertook, among other things, to translate some of the legends, which are in Arabic, on the walls, and which some of you will remember there. I confess I thought them extremely tame and pointless to be honored with such a place; but I received an electric shock when, after our guide had traced with his hand a sentence which ran along the wall in Arabic, saying: "That means 'Truth is good, and happy is he who pursues it,'" I heard behind me a voice saying, "That's a thundering lie!" I looked around, and there was a man in a fustian jacket, who, I found out afterwards, was a Scotch engineer on his way to Constantinople to take charge of a factory. He had been educated largely in London, in the British Museum, and he had, in connection with the University of London, mastered enough Arabic to relieve the ignorance of all the rest of us, and to silence that guide, I hope, forever. Now, then, stop a moment and realize what came into the horizon of that man when he got into Constantinople, incomparably the most beautiful vision as you come up the Sea of Marmora, I think in the world. Imagine him going about and being able to take layer after layer off of that old life and bring it into inspiring contact with his own educated intelligence; and reflect, ladies and gentlemen, that that is what this institution has brought within the possibility, not only of you and of me, but of the humblest artisan, mechanic, day laborer in this city!

If once the love of knowledge is kindled in him, he has within the worlds of these museums possibilities for enlarging the horizon of his knowledge which are not within the reach, so far as his own resources are concerned, of the wealthiest man on this continent.

In the days when we are emphasizing fallacies which undertake to persuade us of the alienation of class from class, nothing, I maintain, is sublimer in its highest aspect than the great educational function of such an institution as this, and the inspiring fact that, whatever has been done by public munificence, side by side, as we have heard here this afternoon, private munificence has arisen with it; that the gifts of the city have been, year after year, matched by the gifts of the individual; and, better still,—though it has not been spoken of here,—that all this is owing most of all, not to money, but to heart and brain. Whatever my friend, the President, has given out of his pocket (and I should not like to embarrass him by asking him how much it is—I have a strong suspicion), he has given a great deal more and better in the time that he has given, day after day, and year after year, all these twenty years, of a trained intellect, and of a vigilant oversight, in which service he has been helped by the coöperation of other intelligent and thoughtful minds, in whose services we have to-day an illustration of what has been doing in our public and private institutions of learning all over the United States. Believe me, ladies and gentlemen, it is this common service, this common sacrifice for the common well-being, which is to bind together in great movements for all that is best in the republic, the people of the whole land.

A few views of the Paris Exposition of 1899, as studied by the Department of Public Instruction, were then shown and explained by Prof. Albert S. Bickmore.



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	Volumes	Parts and Numbers	Pamphlets
Prof. J. A. Allen, New York City.....	2	18	I
F. Ameghino, La Plata, South America.. . . . .			II
E. and H. T. Anthony & Co., New York City....		2	
D. Appleton & Co., New York City.....		3	
S. P. Avery, New York City .....	I		
O. Bangs, Boston, Mass.....			15
Fernand Barroil, Marseilles, France.....			I
Dr. Carlos Berg, Buenos Aires, South America ....	I	3	
William Beutenmüller, New York City.....	I	26	4
Dr. F. Boas, New York City.....	150	145	III
" " " " " "	.6 Maps		
Edward A. Bond, Albany, N. Y. ....	5		
John P. Burkhard Publishing Co., New York City.....		I	
Hon. Wm. Astor Chanler, New York City.....	7I	II5	IO
Henry F. Coates & Co., Philadelphia, Pa.....		2	
George F. Cram, New York City.....		I	
Hon. A. E. Cummings, New York City.....	237		
Antonio de Gordon y de Acosta, Habana, W. I.....			2
Y. Delage, Paris, France.....		I	
J. W. de Peyster, Tivoli, N. Y.....	I Photograph		
F. del Paso y Troncoso, Florence, Italy .....	3		
Porfirio Diaz, Bruxelles, Belgium.....	I		
S. D. Dill, New York City.....		I	
Dodd, Mead & Co., New York City.....			I
Doubleday, Page & Co., New York City.....	I		
A. E. Douglass, New York City.....			II8
Daniel Draper, New York City.....		IO	
Charles Dunod, Paris, France.....		12	
Carl Eickemeyer, Yonkers, N. Y.....	2		
Miss Alice C. Fletcher, Washington, D. C.....	I		
A. S. Gatschet, Washington, D. C.....			I
Miss Laura P. Halsted, New York City.....	6		
Francis P. Harper, New York City.....			2
Hugh Hastings, Albany, N. Y.....	4		

	Volumes	Parts and Numbers	Pamphlets
C. H. Hitchcock, Hanover, N. H.			5
Dr. P. Hinneberg, Berlin, Germany		I	
Hugh Fletcher, Halifax, N. S.			I
Ales Hrdlicka, New York City	I		4
Morris K. Jesup, New York City	32	49	25
Dr. Ernst Kalkowsky, Dresden, Germany			I
F. D. Kilburn, Albany, N. Y.	II		
Moses King, New York City	I		
Ernest Knaufft, New York City		2	
Miss Harriett L. Lagowitz, New York City	I		
Duke of Loubat, New York City	90	13	I
H. H. Lyman, Albany, N. Y.	3		
George McLaughlin, Albany, N. Y.	5		
Macmillan & Co., New York City		II	
Eagles Mere Chataqua Assembly, Hughesville, N. Y.		I	I
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Leo. S. Osman, New York City	I		
James E. Peabody, Cambridge, Mass.			I
Hon. Samuel Prince, New York City	IO		
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Prof. F. W. Putnam, Cambridge, Mass.		2	
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M. H. Saville, New York City			2
Major-General Daniel E. Sickles, New York City	3		
Charles R. Skinner, Albany, N. Y.	4		
Siegel, Cooper Company, New York City		4	
Baxter T. Smelzer, M.D., Albany, N. Y.	9		
Harlan I. Smith, New York City			2
H. C. Southwick, Albany, N. Y.	13		7
Dr. V. Sterki, Columbus, Ohio			I
Dr. Wm. C. Stubbs, New Orleans, La.	I		
Superintendent of Documents, Washington, D. C.	12	12	
" " " through Hon. Wm. Astor Chanler.	3I	15	5
William Trelease, St. Louis, Mo.			I
Sir William Turner, Edinburgh, Scotland	I		I
General Egbert L. Viele, New York City	II	36	960
" " " " " " " " " " " "			1833
" " " " " " " " " " " "			2 Atlases
" " " " " " " " " " " "			.66 Maps
H. Newell Wardle, London, England			I
Clement L. Webster, Charles City, Iowa			2
Dr. H. Fresenius, Wiesbaden, Germany			I
A. Pichlers Witwe & Sohn, Wien, Austria-Hungary			I
Lewis Woolman, Philadelphia, Pa.	I		
Albert Woldert, M. D., Philadelphia, Pa.			I
William A. Woodward, New York City			152
Board of Civil Service Examiners, Ottawa, Canada	I		
Canadian Irrigation Survey	15		Maps
Central Experiment Farm, Ottawa, Canada	I		I

	Volumes	Parts and Numbers	Pamph- lets
Department of Marine and Fisheries, Ottawa, Canada.....	3		
Department of Inland Revenue, Ottawa, Canada.....	1		
Department of Parliamentary Papers, Canada.....	20	4	1
Department of Railways and Canals, Ottawa, Canada.....	1		
Department of Secretary of State, Ottawa, Canada.....	3		
Department of Trade and Commerce, Ottawa, Canada.....	6	1	2
Government Printing Bureau, Ottawa, Canada.....	2		
Ontario Department of Agriculture, Toronto, Canada.....	10	4	3
Ontario Agricultural College and Experiment Farm, Toronto, Canada.....		1	
Ottawa Literary and Scientific Society, Ottawa, Canada.....			1
Minister of Finance, Ottawa, Canada.....	3		
Minister of Justice, Ottawa, Canada.....	1		
Raoul Renault, Quebec, Canada.....		4	
Royal Society of Canada, Ottawa.....	1		
San Francisco Board of Park Commissioners, California.....	1		
Colorado State Agricultural College, Fort Collins.....	2		
Colorado State Historical and Natural History Society, Denver.	3		1
Hartford Steam Boiler Inspection and Insurance Co., Conn....		4	
Florida Agricultural Experiment Station, Jacksonville.....		6	
Board of State Charities of Indiana, Indianapolis.....	2		3
Indiana Department of Geology and Natural Resources, Indian- apolis.....	1		
Indiana State Library, Indianapolis.....	20		
Iowa Board R. R. Commissioners, Des Moines.....	1		
Chicago Entomological Society, Illinois.....		1	
Newberry Library, Chicago, Illinois.....	1		
Psychic Research Co., Chicago, Illinois.....	1	2	
The Library Bulletin Co., Springfield, Illinois.....		1	
University of Illinois, Urbana.....			2
University of Maine, Augusta.....	1		
Maryland Agricultural College, College Park.....		3	
Boston Scientific Society, Massachusetts.....			1
Inland Fisheries and Game, Boston, Mass.....	1		
Journal of American Folk-Lore, Boston, Mass.....		1	
Library Bulletin Co., Boston, Mass.....		1	
Massachusetts Horticultural Society, Boston, Mass.....	1		1
Museum of Fine Arts, Boston, Mass.....			1
City Library Association, Springfield, Mass.....		2	
Wellesley College, Wellesley, Mass.....	1		
Michigan Bureau of Labor, Lansing.....	1		
Minnesota School of Agriculture, St. Anthony's Park.....		1	
University of Minnesota Agricultural Experiment Station, St Anthony's Park.....	1	2	
Webb Publishing Company, St. Anthony's Park, Minnesota....		8	1
Washington University, St. Louis, Mo.....	2		
Montana Historical Society, Helena.....	2		1
University of Montana, Missoula.....			2
New Jersey Free Public Library, Newark.....		11	1
New Jersey State Board of Agriculture, Trenton.....	1		
Banking Department, Albany, New York.....	1		
Bureau of Statistics and Labor, State of New York, Albany....	3	4	

	Volumes	Parts and Numbers	Pamphlets
General Electric Co., Schenectady, New York.....	1		
Grosvenor Free Public Library, Buffalo, N. Y.....	1	1	2
Hamilton College, Clinton, N. Y.....	1		
New York State Attorney-General, Albany.....	1		
New York State Board of Health, Albany.....	3	3	3
New York State Commissioner of Excise, Albany.....	1		
New York State Commission in Lunacy, Albany.....	10		
New York State Commissioner Fisheries, Game and Forests, Albany.....	1		
New York State Factory Inspectors, Albany.....	3		
New York Railroad Commissioners, Albany.....	2		
New York State Treasurer, Albany.....	4		
New York Agricultural Experiment Station, Geneva, N. Y.....		12	1
Lake Mohonk Conference, N. Y.....	1		
Pan-American Exposition, Buffalo, N. Y.....21 Photographs			2
Acetylene Journal Publishing Co., New York City.....		1	
American Art Galleries, New York City.....	1		
American Society for Prevention Cruelty to Animals, N. Y. City.....		26	
American Water Color Society, New York City.....			1
Automobile Club, New York City.....		7	
Cooper Union, New York City.....			1
Department of Parks, New York City.....	1		
New York City Charity Organization, New York City.....		43	
National Academy of Design, New York City.....			1
New York Central Railroad, New York City.....	1		
New York Entomological Society, New York City.....	1		
New York Post-Graduate Medical School, New York City.....		12	1
New York Press Company, Limited, New York City.....	1		
New York Scientific Alliance, New York City.....	1	3	
New York University, New York City.....			1
New York Zoölogical Society, New York City.....	1		
Press Biographical Company, New York City.....			1
Roosevelt Hospital, New York City.....	1		
Salmagundi Club, New York City.....	1		
Teachers' College, New York City.....	1		
U. S. Weather Bureau, New York City.....		295	
The Mineral Collector Company, New York City.....		1	
The Art Interchange Company, New York City.....		1	
Cincinnati Museum Association, Ohio.....	1		
Ohio State Academy of Science, Sandusky.....			1
American Academy of Political and Social Science, Phila., Pa..		7	1
Fairmount Park Art Association, Philadelphia, Pa.....	3		
Philadelphia City Trusts, Pennsylvania.....	1		
Carnegie Museum, Pittsburg, Pa.....	2	1	
Rhode Island State Board of Agriculture, Providence.....	1		
Hampton Normal and Agricultural Institute, Virginia.....	1		
University of Virginia, Charlottesville.....	1		
Valentine Museum, Richmond, Va.....	1		
Virginia Agricultural and Mechanical College, Blacksburg.....		2	
Middlebury College, Vermont.....	1		
National Geographic Society, Washington, D. C.....		4	

	Volumes	Parts and Numbers	Pamphlets
Deutsche Gesellschaft für Natur-Völkerkunde Ostasiens, Tōkyō, Japan, Asia.....		1	
Tōkyō Geographical Society, Tōkyō, Japan, Asia.....		5	
Botanical Institute, Tōkyō, Japan, Asia.....			2
Royal Anthropological Society, Sydney, Australia.....		6	
Akademija Umiejtności, Krakau (Galicia), Austria-Hungary...	1		
Museum Francisco Carolinum in Linz, Austria-Hungary.....	1	1	
Société de Médecine Scientifique et d'Hygiène, Kharkow, Austria-Hungary.....	1	1	
Wiener Thierschutz-Verein, Wien, Austria-Hungary.....		9	
Verein für Natur-und Heilkunde zu Presburg, Austria-Hungary.	1		
Société des Ingénieurs d'Industrie, etc., Hainaut, Liège, Belgium.		1	
Museo de Histoire Naturel de Valparaiso, Chili.....		3	
Kongelige Danske geografiske Selskab, Copenhagen, Denmark.	2	2	
Monthly Arabic Journal of Science, Literature and Art, Cairo, Egypt.....		10	
Institut Egyptien, Cairo, Egypt.....	1		
Manchester Institute of Arts and Sciences, England.....	1		
Commission d'Antiquities du Département de la Cote-D'or, Dijon, France.....	1	1	
Société d'Agriculture, Science, Arts et Commerce du Département de la Charente, Angoulême.....	2	4	
Société D'Horticulture de Picardie, Amiens, France.....		2	
Société D'Emulation De L'ain, Bourg, France.....		2	
Société Des Sciences Médicales de Gannat, Commeny, France.		12	
Société d'Études Scientifiques d'Angers, France.....	1		
Société Géologique du Nord, Lille, France.....	1		
Société des Ingénieurs d'Industrie et des Mines, de Hainaut, Paris.....	1	1	
Société d'Horticulture et de Botanique du Centre de la Normandie, Lisieux, France.....		8	
Société de Géographie de L'Est, Paris, France.....		2	
Société National D'Agriculture, Science et Arts d'Angers, France.....	1		
Club Cevenol, Paris, France.....		1	
Naturforschende Gesellschaft in Bamberg, Germany.....	1		
Labatorium et Museum et Clinicum, Berlin, Germany.....		1	
Zoologische Sammlung zu Berlin.....		1	1
Schlesische Gesellschaft für Vaterländische Cultur, Breslau, Germany.....	3		
Gesellschaft "Isis," Dresden, Germany.....			1
Naturforschende Gesellschaft zu Freiburg, Germany.....		1	
Benno Konegen Verlag, Leipzig, Germany.....		1	
Geographische Gesellschaft und der Naturhistorisches Museum in Lübeck, Germany.....		1	
Commerce Special de la Greece avec les Pays Étrangers, Athènes. Greece.....		2	
Ministère des Finances, Athènes, Greece.....		2	
Department of Land Records and Agriculture, Bombay, India..		1	
Agricultural and Horticultural Society of India, Calcutta.....			3
Botanical Survey of India, Calcutta.....			1
Government of India, Calcutta, India.....	10	65	33

	Volumes	Parts and Numbers	Pamphlets
Bengal Chamber of Commerce, Calcutta, India.....	2		
Belfast Natural History and Philosophical Society, Ireland.....	2		
Agricultural Statistics of Ireland, Dublin.....			I
Direccion General de Estadistica, Mexico.....	4		
Instituto Medico Nacional, Mexico.....		10	
Instituto Cientifico Literario, Toluca, Mexico.....		2	
Instruccion Publica Mexicana, Mexico.....		14	
Public Museum, Wanganni, New Zealand.....			I
Register-General's Office, Wellington, New Zealand.....	I		
Typographical Society (National Interest), St. Petersburg, Russia.....		3	
Austin Publishing Co., Honolulu, Sandwich Islands.....		3	
Bernice Pauahi Bishop Museum, Honolulu, Sandwich Islands..		3	
Hawaiian Minister of the Interior, Honolulu, Sandwich Islands.	6		I
Botanical Society of Edinburgh, Scotland.....		I	
Edinburgh University, Scotland.....	I		
Royal College of Physicians, Edinburgh, Scotland.....	I		
Direction Generale de Statistique, Buenos Ayres, South America..		2	
Sociedad Cientifica Argentina, Buenos Aires, South America...	2	12	
Museo de Historia Natural, Valparaiso, Chili, South America..			I
Sociedade Broteriana, Coimbra, South America.....	I		
Kongelige Akademie der Schonen Wissenschaften Gesellschaft und Alterthumsk, Stockholm, Sweden.....	I		
Geographisch-Ethnographische Gesellschaft in Zürich, Switz'l'd.	I		

Mr. FORDHAM MORRIS, New York City.

Portrait of Audubon, the naturalist, painted a few years before his death by his sons, John and Victor. At this time Audubon resided at Audubon Park, New York City.

# EXCHANGES.

	Volumes	Parts and Numbers	Pamphlets
Alabama. Geological Survey of Alabama, Montgomery.....	3		
California. University of California, Agricultural Experiment Station, Berkeley.....	69	12	37
C. R. Orcutt, San Diego.....		3	
Library, Leland Stanford, Jr., University, Palo Alto.....	2	1	
California State Board of Fish Commissioners, Sacramento.....	1		
California State Mining Bureau, Sacramento.....		3	
California Academy of Sciences, San Francisco.....	2	8	
San Francisco Free Public Library.....	2		
Cooper Ornithological Club, Santa Clara.....		6	
Santa Clara College.....	1		
Colorado. Scientific Society, Denver.....		2	2
University of Denver.....			1
Connecticut. State Board of Agriculture, Hartford.....	1		
C. E. Beecher, New Haven.....			2
Illinois. F. C. Chamberlin, Chicago.....	1		
Chicago Academy of Science.....	1	1	
Field Columbian Museum, Chicago.....		9	
John Crerar Library, Chicago.....	1		1
University of Chicago.....		2	
State Laboratory of Natural History, Urbana.....	1	4	
Indiana. Academy of Science, Indianapolis.....	2		
Indiana State Library, Indianapolis.....	20	7	
Iowa. Academy of Natural Sciences, Davenport.....	1		
Geological Survey, Des Moines.....	1		
Historical Department of Iowa, Des Moines.....		2	
University of Iowa, Iowa City.....		2	
State Historical Society, Iowa City.....		9	
Kansas. State Board of Agriculture, Topeka.....	1	1	
State Historical Society, Topeka.....	1		
University, Lawrence.....		2	1
Kentucky. Agricultural Experiment Station, Louisville.....		6	
Maryland. Johns Hopkins University, Baltimore.....		5	
Agricultural Experiment Station, College Park.....		3	1
Massachusetts. Agricultural College, Amherst.....	2	12	
American Academy of Arts and Sciences, Boston.....	1	44	
Appalachian Mountain Club, Boston.....	2		
Boston Public Library.....	2	11	
Boston Society of Natural History.....		6	
State Board of Agriculture, Boston.....	1		
Walter Faxon, Cambridge.....			1
Harvard College Astronomical Observatory, Cambridge.....	5	1	
Museum of Comparative Zoölogy, Cambridge.....	8	33	
Tufts College, Medford.....		1	
Essex Institute, Salem.....	1		

	Volumes	Parts and Numbers	Pamphlets
Massachusetts— <i>Continued.</i>			
E. S. Morse, Salem.....			1
City Library Association, Springfield.....		5	
Worcester Society of Antiquity.....		1	
Michigan. State Agricultural College Experiment Station, Agricultural College.....		7	
State Board of Agriculture, Agricultural College.....	2		
Public Museum, Milwaukee, Michigan.....	1		
Minnesota. Geological and Natural History Survey, St. Paul..	2		
University Minnesota State Agricultural Experiment Sta- tion, Minneapolis.....		1	
Missouri. University of the State, Columbia.....	1		
Missouri Geological Survey, Jefferson City.....	1		2
State Horticultural Society, Jefferson City.....	1		
St. Louis Academy of Science.....		9	
Missouri Botanical Garden, St. Louis.....	1		
Nebraska. University, Lincoln.....	1	4	
New Hampshire. Historical Society, Concord.....	1		
New Jersey. Free Public Library, Newark.....	1	2	
Agricultural College Experiment Station, New Brunswick..		5	
Geological Survey, Trenton.....	2		
Historical Society, Paterson.....		2	
New Mexico. University of New Mexico.....	2		
Nevada. State University, Reno.....		3	
New York. Department of Agriculture, Albany.....	3		1
John M. Clarke, Albany.....	2		
New York State Department of Public Instruction, Albany.	1		
University of State, Albany.....	12	13	
State Museum, Albany.....	4		
F. H. Lattin, Albion.....		10	
Museum Publishing Co., Albion.....		1	
New York Agricultural Experiment Station, Geneva.....		11	1
Cornell University, Ithaca.....		10	
Oneida Historical Society, New York.....			1
Academy of Science, Rochester, N. Y.....		1	
Geological Society of America, Rochester, N. Y.....		14	
Charles S. Prosser, Schenectady.....			1
Natural Science Association, New Brighton, Staten Island.		8	
R. Ellsworth Call, Brooklyn, N. Y.....	17	2	19
American Chemical Society, New York City.....	1		
American Geographical Society, New York City.....		7	
American Institute of Mining Engineers, New York City..	1	2	88
American Numismatic and Archaeological Society, New York City.....			1
Archaeological Institute of America, New York City.....		4	
Columbia University, New York City.....	2	4	
Lemcke and Buechner, New York City.....	1		
Mercantile Library, New York City.....	1		1
Metropolitan Museum of Art, New York City.....	2		
New York Academy of Medicine, New York City.....	1		
New York Academy of Sciences, New York City.....	1	3	2
New York Botanical Garden, New York City.....		3	



	Volumes	Parts and Numbers	Pamphlets
<i>New York—Continued.</i>			
New York Public Library, New York City.....	1		
New York Zoological Society, New York City.....		2	
Torrey Botanical Club, New York City.....	1		
Gustav E. Stechert, New York City.....	1		
North Carolina. N. C. Geological Survey, Raleigh.....	1		
E. Mitchell Scientific Society, Raleigh.....		1	
Ohio. Cincinnati Society of Natural History.....		2	
Lloyd Museum and Library, Cincinnati.....	1		
Agricultural Experiment Station, Columbus.....		27	
Ohio State Archaeological and Historical Society, Columbus.	10	2	
“ “ Library, Columbus.....	37	10	10
“ “ University, Columbus.....			1
Dennison University, Granville.....		1	
Oberlin College.....		5	
Pennsylvania. Academy of Natural Sciences, Philadelphia....		6	
American Academy of Arts and Sciences, Philadelphia.....		2	
American Philosophical Society, Philadelphia.....		6	
American Society for Extension of University Teaching, Philadelphia.....			1
Geographical Society of Philadelphia.....		1	
Numismatic and Antiquarian Society, Philadelphia.....	1		
University of Pennsylvania, Philadelphia.....	1	2	
Wagner Free Institute of Science, Philadelphia.....	1		
Zoological Society of Philadelphia.....			1
Wyoming Historical and Geological Society, Wilkes-Barre.	1		
Rhode Island. Brown University, Providence.....	3		
Natural History Society, Newport.....	1		
Redwood Library and Athenæum, Newport.....	1		
Vermont. University of Vermont and State Agricultural Col- lege, Burlington.....	3	11	2
Virginia. Dr. Edgar A. Mearns, Fort Meyer.....			8
Washington, D. C. Washington Academy of Science.....	2	9	5
Department of Agriculture.....	70	114	4
“ “ Interior.....	58		1
“ “ State.....	45	2	
Library of Congress.....		6	2
Smithsonian Institution.....	8		1
Treasury Department.....	3	1	
U. S. Civil Service Commissioner.....	1		
War Department.....	6		
F. A. Lucas.....	3		23
C. D. Walcott.....			4
Wisconsin. Academy of Sciences, Arts and Letters, Madison.	1		
Geological and Natural History Survey, Madison.....	4		
Natural History Society, Milwaukee.....		3	
Wyoming. University of Wyoming, Laramie.....		2	
Canada. Le Naturaliste Canadien, Chicoutimi.....		12	
Fruit Growers Association, Grimsby.....	1		
Nova Scotian Institute of Natural Science, Halifax.....		1	
Hamilton Association.....	1		
Entomological Society of Ontario, London.....	1		

	Volumes	Parts and Numbers	Pamphlets
<i>Canada—Continued.</i>			
Natural History Society of Montreal.....		3	
Numismatic and Antiquarian Society of Montreal.....		3	
Geological and Natural History Survey of Canada, Ottawa.	2	3	
Minister of Militia and Defence, Ottawa.....	1		
Ottawa Field Naturalists' Club.....		9	
New Brunswick Natural History Society, St. John.....	1		
Canadian Institute, Toronto.....	1	4	
University of Toronto, Ontario.....	3	2	
Manitoba Historical and Scientific Society, Winnipeg.....		2	1
Costa Rica. Museo Nacional, San José.....	4		
Mexico. Biblioteca de la Secretario di Fomento.....	6		
Direccion General de Estadistica.....	1		6
Instituto Geológico De Mexico.....		2	
Instruccion Publica Mexicana.....		2	
Museo Nacional de Mexico.....		24	
Sociedad Cientifica "Antonio Alzate," Mexico.....		12	
West Indies. Dodd's Botanical Station, Barbadoes.....			1
Real Accademia de Ciencias Medicas, Fiscias y Naturales d'l Habana.....		6	
Agricultural Society, Trinidad, Port-of-Spain.....		6	
South America. Florentino Ameghino, Buenos Aires.....			1
Prof. Carlos Berg, Buenos Aires.....			10
Instituto Geografico Argentino, Buenos Aires.....	1		
Museo Nacional de Buenos Aires.....		2	
Direccion General de Estadistica, La Plata, Brazil.....	1	2	
Museo de la Plata, Brazil.....	1		
Bibliotheca Nacional de Rio de Janeiro.....	2		
Royal Agricultural and Commercial Society of British Guiana.....		1	
Société Scientifique du Chili, Santiago.....		4	
La Universidad, Santiago, Chili.....	10		
Museum de Valparaiso, Chili.....		7	
Museo Nacional de Montevideo, Uruguay.....		3	
Republic Oriental del Uruguay, Montevideo.....	1		
Museu Paraense de Historia Natural e Ethnographia, Para.		2	
Africa. Accadémie d'Hippone-Société de Recherche Scientifique et d'Acclimatation, Bône.....	1		1
Accademie d'Hippone-Société de Recherche Scientifique et d'Acclimatation, Bône.....1 plate.			
Accadémie d'Hippone-Société de Recherche Scientifique et d'Acclimatation.....3 maps.			
Colonial Secretary's Office, Cape Town.....	1		
Department of Agriculture, Cape Town.....		24	
Mountain Club, Cape Town.....		1	
South African Museum, Cape Town.....		5	
Société Archéologique de Constantine, Algeria.....	1		
Institut de Carthage, Tunis.....		4	
Institut Égyptien, Le Caire.....	1	5	
Asia. Cawnpore Experiment Farm, Allahabad, India.....			1
Royal Asiatic Society (Bombay Branch).....		1	
Asiatic Society of Bengal, Calcutta, India.....		17	

	Volumes	Parts and Numbers	Pamphlets
<i>Asia—Continued.</i>			
Indian Museum, Calcutta, India .....	3	2	I
Madras Government Museum, India.....		2	
Imperial University, Tokio, Japan.....	I	3	
Tokyo Geographical Society, Tokyo, Japan.....		6	
Koninklijke Natuurkundige Vereeniging in Ned-Indië, Batavia, Java.....	I		
North Western Provinces and Oudh, Allahabad.....	I		I
Bataviasch Genootschap Kunsten en Wetenschappen, Java.....	I	I	
Australasia. Public Library Museum and Art Gallery, Adelaide.	I		
Royal Geographical Society, Adelaide.....			I
South Australian Zoölogical and Acclimatization Society, Adelaide.....			I
Australian Museum, Sydney.....	I	3	
Department of Mines and Agriculture, Sydney.....	2	2	I
Geological Survey, Western Australia, Perth.....	I	I	
Government Statistician's Office, Sydney.....	3		
Linnean Society of New South Wales, Sydney.....	2	2	
Royal " " " " " "	I		
New Zealand Department of Agriculture, Wellington....		13	I
Royal Society of Queensland, Brisbane.....	2		
Government Statistician and Register General, Hobart, Tasmania.....	I		
Minister of Mines, Tasmania.....	2		5
Royal Society of Victoria, Melbourne.....	4		
Royal Geographical Society, Melbourne.....	I	I	
Victoria Zoölogical and Acclimatization Society, Melbourne.			I
Field Naturalists' Club, Victoria.....		17	
New Zealand Institute, Wellington.....	5		
<i>Austria-Hungary. Südslavische Akademie der Wiss und Künste.</i>			
Agram.....	I		
Vorarlberger Museum, Verein, Bregenz.....	I		
K. Magyarhoni Földtani Tarsulat, Budapest.....	I	13	
Magyar Nemzeti Museum, Budapest.....	I	3	
R. Società Agraria di Gorizia.....		12	
Naturwissenschaftlicher Verein für Steiermark, Grätz.....	3		
Siebenbürgischer Verein für Naturwissenschaft, Hermannstadt.....	2		
Verein für Siebenbürgische Landeskunde, Hermannstadt..	I	I	I
Ungar, Karpathen-Verein, Iglo. ....	2		
Bureau de l'Académie des Sciences de Cracovie, Poland...	3	II	
Verein f. Geschichte der Deutschen in Böhmen, Prag.....	I		
Naturwiss Verein der Trencsiner Comitatus, Trencsin....	I		
Kaiserliche Akademie der Wissenschaften, Vienna.....	4	5	
K. K. Ackerbau-Ministerium, Vienna.....		2	
K. K. Gartenbau-Gesellschaft, Vienna.....		13	
K. K. Geologische Reichsanstalt, Vienna.....		20	
K. K. Naturhistorisches Hof-Museum, Vienna.....	I	I	
K. K. Universität in Wien, Vienna.....		2	
K. K. Zoölogisch-Botanische Gesellschaft, Vienna.....		10	
Section f. Naturkunde d. Öster. Tourist-Club, Vienna....		I	

	Volumes	Parts and Numbers	Pamphlets
<i>Austria-Hungary—Continued.</i>			
Verein zur Verbreitung Naturwissenschaftlicher Kenntnisse, Vienna.....	1	1	
Jugoslavske Akademija, Zagrebu.....		1	
Belgium. Dr. Alph. Dubois, Brussels.....	1		
Musée du Congo, ".....		5	
Société Royale Linn. d. Bruxelles.....		5	
" Malacologique de Belgique, Brussels.....	2	3	
" Géologique de Belgique, Liège.....		3	
" Royale des Sciences, ".....	1		
" Scientifique de Bruxelles, Louvain.....	3	2	
L'École Provinciale d'Industrie et des Mines du Hainaut, Morlanwels.....		1	
Denmark. Les Instituts Météorologique de Norwège de Danemark et de Suede, Copenhagen.....		1	
Kgl. Danske Landhusholdningsselskab, Copenhagen.....	3	12	1
Kongelige Dansk Videnskabernes Selskab, Copenhagen...	1	4	
France. Société d'Emulation, Abbeville.....	2		
Société Linneenne du Nord de la France, Amiens.....		10	
L'Académie de Vaucluse, Avignon.....	1	3	
Société d'Letres, Sciences et Arts de Bar-Le-Duc.....	7		
Société Académique d'Archæologie, Science et Arts du Département de L'Oise, Beauvais.....	1		
Société d'Horticulture de la Gironde, Bordeaux.....		4	
Société des Sciences Naturelles de Saône et Loire, Chalon-Sur-Saône.....		10	
Société d'Horticulture et Viticulture de la Côte-D'Or, Dijon.		5	
Union Géographique du Nord d. l. France, Douai.....		3	
Société Libre d'Agriculture, Sciences, Arts et Belles-Lettres du Département de l'Eure, Evreux.....		1	
Société des Sciences Naturelles et Archæologie de la Creuse, Guéret.....	1		
L'Université, Laval.....	3		
Société d'Horticulture de Fontenay-Le-Comte.....		2	
" de Médecine et de Pharmacie de la Haut-Vienne-Limoges.....		11	
" Géologique du Nord, Lille, France.....	14		
" Bretonne de Géographie (Lorient), France.....		6	
" des Sciences de L'Ouest de la France.....		4	
Museum d'Histoire Naturelle De Lyon, Lyon.....	33		
Faculté des Sciences de Marseilles.....		6	
Museum d'Histoire Naturelle, Marseilles.....	1	8	
Société d'Agriculture, Ind. Science et Arts du Département de le Lozère, Mende.....	1		
Academie Royale des Sciences, Lettres et Arts de Modène, Modena.....	1		
Académie des Sciences et Lettres de Montpellier.....		3	
Société Cent. d'Agriculture et des Comices Agricoles du Département d' l'Hérault, Montpellier.....	14		1
Société d'Horticulture de L'Allier, Moulins.....		2	
Feuille des Jeunes Naturalistes, Paris.....	14		1
Ministère des Travaux Publics, Paris.....	11		

	Volumes	Parts and Numbers	Pamphlets
<i>France—Continued.</i>			
Bibliothèque du Museum d'Histoire Naturelle, Paris.....		2	
Société d'Anthropologie de Paris.....		1	
“ de Géographie, Paris.....		14	
“ Entomologique de France, Paris.....	I	4	
“ Géologique de France, Paris.....		16	
“ Zoologique de France, Paris.....	I		
Académie des Sciences, Ins. et Belles Lettres, Toulouse....		4	
Germany. Berliner Anthropologische Gesellschaft, Berlin.....		7	
Deutsche Geologische Gesellschaft, Berlin.....		4	I
Königliche Museum zu Berlin, Berlin.....		2	
R. Friedländer und Sohn, Berlin.....		22	
Dr. Hermann Fürst, Berlin.....		16	
Ges. Anthropologie, Ethnologie u. Urgeschichte, Berlin....		3	
Gesellschaft für Erdkunde, Berlin.....		18	
Naturhistorischer Ver. d. Preussischen Rheinlande, Berlin..	I	3	
Verein für Naturwissenschaften in Braunschweig.....	I		
Naturwissenschaftlicher Verein, Bremen.....	I		
Verein f. Schlesische Insectenkunde, Breslau.....		2	
Naturwissenschaftliche Gesellschaft Isis in Dresden.....		2	
Naturforschende Gesellschaft in Emden.....	I		
Naturwissenschaftlicher Verein Des Reg-Bez., Frankfurt..		2	
Senckenbergische Naturforschende Gesellschaft, Frankfurt.		2	
Société Fribourgeoise des Sciences Naturelles, Fribourg...		2	
Göteborgs Kongl. Vetenskaps och Vitterhets-Samhälles, Gothenbourg.....		1	
Oberlausitzer Gesellschaft d'Wissenschaften, Görlitz.....	I		
Hamburgische Wissenschaften Anstalten, Hamburg.....	3		
Naturwissenschaftlicher Verein, Hamburg.....		I	
Roemer Museum, Hildesheim.....		2	I
Bibliothek der Technischen Hochschule zu Karlsruhe.....			7
Naturwissenschaftlicher Verein in Karlsruhe.....	2		
Naturwissenschaftlicher Verein für Schleswig-Holstein, Kiel.	I		
Königliche Physikalisch-Oekonomische Gesellschaft, Königs- berg.....	I		
Königlich-Sächsische Gesellschaft d. Wissenschaften, Leipzig.....	6	5	4
Verein für Erdkunde, Leipzig.....	I		
Museum für Völkerkunde in Leipzig.....	I		
Das Museum zu Lübeck.....	I		
Naturwissenschaftlicher Verein, Magdeburg.....	I		
Gesellschaft zur Beförderung der Gesamten Naturwissen- schaften, Marburg.....	I		
Zeeuwsch Genootschap van Wetenschappen, Middleburg...			I
Naturwissenschaftlicher Verein f. Schwaben u. Neuberg, Augsburg.....	I		
Naturhistorische Gesellschaft, Nürnberg.....	I		
Verein für Heil-und Naturkunde zu Pozsony, Presburg....	I		
Stavanger Museum, Stavanger.....	I		
Entomologischer Verein zu Stettin.....	I		
Nassauischer Verein für Naturkunde, Wiesbaden.....	I		
Königliche Universitäts-Bibliothek, Würzburg.....			18

	Volumes	Parts and Numbers	Pamphlets
England. Birmingham and Midland Institute.....	2		
Bristol Museum and Reference Library, Bristol.....	1		1
Naturalists' Society, Bristol.....		1	
Philosophical Society, Cambridge.....		3	
Naturalists' Society, Cardiff.....	1		
Cotteswold Naturalists' Field Club, Gloucester.....	1	1	
Natural History Society, Hertfordshire.....		4	
Board of Agriculture, London.....		12	
British Museum (Natural History), London.....	1		2
Geologists' Association, London.....		5	
Geological Society of London.....	2	4	
Linnean Society of London.....	1	5	
Royal Colonial Institute, London.....		8	
Royal Society, London.....	1	15	
Wesley and Son, London.....	32		
Zoological Society, London.....	1		1
Field Natural and Archæologist's Society, Manchester....	1		
Geographical Society, Manchester.....		3	
Geological ".....		13	
Manchester Geological Society, Manchester.....		7	
Museum, Owens College, Manchester.....		3	
Literary and Philosophical Society, Manchester.....	2	5	
Marine Biological Association, United Kingdom, Plymouth.....		1	2
Zoological Museum, Tring.....	2	2	
Scotland. W. E. Clarke, Edinburgh.....		4	
Edinburgh Geological Society.....	3		2
Royal Society of Edinburgh.....	1		
Scottish Natural History Society, Edinburgh.....		1	
Glasgow and West Scotland, Technical College.....	1		
Philosophical Society of Glasgow.....	1		
Perthshire Society of Natural Science, Perth.....		1	
Ireland. Flax Supply Association, Belfast, Ireland.....	1		
Belfast Naturalists' Field Club.....		1	
Royal Dublin Society.....		10	1
Iceland. Hid Islenzka Bókmentafjélag Reykjavik.....	6	5	
Italy. R. Istituto Di Studi Superiori in Firenze.....	7		
Società Entomologica Italiana, Firenze.....		1	
R. Istituto Lombardo di Scienze e Lettere, Milano.....	1	4	
R. Accademia di Scienze, Lettere ed Arti in Rovoreto, Modena.....		3	
R. Orto Botanico di Palermo.....		4	
Società Toscana di Scienze Naturali, Pisa.....	2		3
R. Accademia dei Lincei, Roma.....	3	39	
Ministerio d'Agricoltura, Industria e Commercio, Roma...		1	
Musei di Zoologia ed Anatomia, Torino.....		20	
Società degli Alpini Tridintini, Trento.....	1		
Institut Bibliograph Internat, Bruxellensis, Turici.....	1		
Netherlands. Koninklijke Akademie Van Wetenschappen, Amsterdam.....	6	6	
Société Hollandaise des Science, Haarlem.....		4	
Bibliotheek der Rijks Universiteit Te Leiden.....			2

	Volumes	Parts and Numbers	Pamphlets
Netherlands— <i>Continued.</i>			
Société Néerlandaise de Zoologie a la Station Zoologique, Helder, Leiden.....		1	1
Nederlandsche Dierkundige Vereeniging, Leiden.....		2	
Norway. Directoren for det Civile Veterinærvæsen, Kristiania, Norway.....	1		
Norska Nordhavs-Expedition, Christiania.....	1		
The Norwegian North Atlantic Expedition, Christiania....	1		
Videnskabernes Selskab I Christiania.....	4	9	9
Kongelige Norske Videnskabernes Selskabs, Trondhjem..	1		
Russia. Naturforschende Gesellschaft bei der Universität, Dorpat	1		
Commission Géologique de la Finlande, Helsingfors.....		3	
Société des Sciences de Finland, Helsingfors.....	3		
Société des Naturalistes, Kiew.....	1		
Société Imperiale des Naturalistes, Moscow.....		7	
Société des Naturalistes De La Nouvelle-Russie, Odessa...	1		
L'Académie Imperiale des Sciences, St. Petersburg.....	3	26	
Comité Géologique de la Russie, St. Petersburg.....		19	
Horæ Societatis Entomologicae, St. Petersburg.....		4	
Russische - Kaiserliche Mineralogische Gesellschaft, St. Petersburg.....	1	3	
Kaukasische Museum, Tiflis, Russia.....	1		
Sandwich Islands. Frank L. Hoogs, Honolulu.....		1	
Sweden. Kongl. Vitterhets Historie och Antiquitets Akademien, Stockholm.....	14		
Royal Swedish Academy of Sciences, Stockholm.....	4	10	
Société Entomologique, Stockholm.....		4	
Kongliga Universitet et Bibliotheket, Upsala.....	1		
Switzerland. Naturforschende Gesellschaft Graubündens, Chur.	1		
Naturforschende Gesellschaft, Basle.....	2	1	
Société Vaudoise des Sciences Naturelles, Lausanne.....		4	
Lund Universitatis Lundensis, Lund.....	1		
Société Neuchateloise de Géographie, Neuchatel.....	1		
Schweizer Entomologische Gesellschaft, Schaffhausen.....		2	
St. Gallische Naturwissenschaftliche Gesellschaft, St. Gall.	1		
Concilium Bibliographicum, Zurich, Switzerland.....		6	1

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DEPARTMENT OF GEOLOGY AND MINERALOGY.

PALÆONTOLOGY AND GEOLOGY.

BY DONATION.

- J. H. ABEGG AND H. P. HOFFER, through Prof. Albert S. Bickmore.  
Two blocks of *Pentacrinus* limestone, a quantity of discs of the columns and one disc set as a brooch.
- E. J. CAHILL, Boonton, N. J.  
4 Specimens of Triassic fish from Boonton, N. J.
- R. M. HARTLEY.  
5 Nodules of *Orthoceras* in pyrite concretions, from Schoharie, N. Y.
- N. E. HOPKINS, Boonton, N. J.  
3 Specimens of Triassic fish from Boonton, N. J.
- EDMUND O. HOVEY, New York City.  
About 30 specimens of rocks from near Peekskill, N. Y.
- ARCHER M. HUNTINGTON, New York City.  
Copal disc with Termite enclosed.
- MISS A. F. KENVON, Melbourne, Australia.  
4 Specimens of bituminous coal from Korumburra, Victoria.
- H. LINDEN, Sec'y Zoölogical Station, Naples, Italy.  
Volcanic Bomb from Lipari Islands, Italy.
- F. P. MASON, Brooklyn, N. Y.  
10 Specimens of fossil gum from Sumatra, Dutch East Indies.
- MISS M. T. MEAGHER, New York City.  
1 Specimen of *Leptomaria perlata* Con., from Farmingdale, N. J.  
1 Specimen of *Fasciolaria Hercules* Whitf., from Farmingdale, N. J.
- DR. E. A. MEARNS, U. S. A., Newport, R. I.  
4 Specimens of weathered sandstone, showing quartz veins, from Newport, R. I.
- J. RICALTON, through Prof. Albert S. Bickmore.  
1 Sample of coal from the Island of Cebu, Philippines.
- G. C. ROBBINS, through Mr. Newcomb, New York City.  
1 Specimen of *Inoceramus tenuilineatus* H. & M. from Lookout Mts., Col.
- DR. GEO. R. WIELAND, New Haven, Conn.  
Several specimens of two species of Ostracoda, Piedmont, S. D.
- CHRISTIAN WEBER, Jersey City, N. J.  
5 Specimens of concretions from Saratoga Lake, N. Y.
- J. E. YOUNGLOVE.  
12 Specimens of *Pentremites* from Bowling Green, Ky.

BY PURCHASE.

- 8 Blocks of *Triarthrus Becki* Green from Rome, N. Y.

BY DONATION.

5 Specimens of Coloradoite from Boulder Co., Col.

4	"	"	Petzite	"	"	"	"
1	"	"	Lionite	"	"	"	"
3	"	"	Sylvanite	"	"	"	"
I	"	"	Tellurium	"	"	"	"
I	"	"	Nagyagite	"	"	"	"
I	"	"	Telluride of Copper, from Boulder Co., Col.				
2	"	"	Cerargyrite from Leadville, Col.				
I	"	"	Embolite	"	"	"	"
I	"	"	Cerussite	"	"	"	"
I	"	"	Leadhillite	"	"	"	"
I	"	"	"	"	"	"	"
2	"	"	Pyromorphite from Cornwall, Eng.				
2	"	"	Cuprite from Cornwall, Eng.				
2	"	"	Matlockite from England.				
2	"	"	Linarite from Cumberland, Eng.				
3	"	"	Copper from Lake Superior, Mich.				
I	"	"	Gold in Limonite from San Juan, Col.				

1 Bottle of Garnet Sand from Alaska.

1 Specimen of Aenigmatite from Greenland.

1	"	"	Reddingtonite from Branchville, Conn.
1	"	"	Eosphorite " " "
1	"	"	Triploidite " " "
1	"	"	Natrophilite " " "
1	"	"	Eucryptite " " "
1	"	"	Gütermannite from Silverton, Col.
1	"	"	Bixbyite from Utah.
1	"	"	Mixite from Utah.
1	"	"	Clinoclasite from Utah.
1	"	"	Melanotekite from New Mexico.
1	"	"	Rubellite from Haddam, Conn.
1	"	"	Microcline from Florissant, Col.
1	"	"	Quartz from Topsham, Me.
1	"	"	Heulandite from Iceland.
1	"	"	Fluorite from St. Gothard, Switzerland.
1	"	"	Quartz with Actinolite from Switzerland.
2	"	"	Quartz (enclosing Tourmaline) from Montana.
3	"	"	Gypsum.

I Specimen of Barite from Cumberland, Eng.

About 200 Limonite cubes, pseudomorph after Pyrite, from Xaaga, near ruins of Mitla, Oaxaca.

A number of very small Garnets and a few Chrysoberyls from Navajo Reservation, Arizona.

Large group of Calcite crystals from Joplin, Mo.

1 Specimen of Quartz (enclosing Tourmaline) from Jefferson Co., Mont.  
2 " " " with Amethyst. " " " "

- S. HERMANN, New York City.  
Block of artificial Verde antique.
- BRUCE HORSFAL, New York City.  
2 Specimens of Rhizomorphs from Red Bank, N. J.
- MORRIS K. JESUP, New York City.  
1 Specimen of Gold Nugget from Cape Nome, Alaska.  
1 " " Quartz Ball " Japan.
- W. W. JEFFERIS, New York City.  
1 Specimen of Aquacryptite from East Bradford, Pa.  
1 " " Magnetited Muscovite from Chandler's Hollow, Del.
- J. A. MANLEY, New Brunswick, N. J.  
1 Specimen of Red Willemite from Franklin, N. J.  
1 " " Hancockite " " "
- K. C. MURRAY, New York City.  
1 Specimen of Chromite from Tompkinsville, S. I.
- F. C. NICHOLAS, New York City.  
Crystal of Electrum from Antigua, Colombia.  
1 Specimen of Weathered Agate from Costa Rica.  
Small quantity of Scale or Placer Gold from Antigua, Colombia.
- LIEUT. R. E. PEARY.  
Several specimens of Ovifak Iron from Ovifak, Disco Island, Greenland.
- D. PROSKEY, New York City.  
7 Specimens of Heulandite.  
3 " " Chabazite.  
6 " " Apophyllite.  
1 " " Amethyst.  
3 " " Pectolite.  
5 " " Datolite.  
2 " " Calcite.  
10 " " Stilbite, all from Paterson, N. J.
- ERNEST SCHERNIKOW, New York City.  
1 Specimen of Cæsium Beryl from Haddam, Conn.  
2 " " Quartz from Alexander Co., N. C.
- J. R. STANTON, New York City.  
Large Mass of Mohawkite from Lake Superior, Mich.
- J. E. YOUNGLOVE.  
About 100 fresh water Pearls from Bowling Green, Ky.

## BY PURCHASE.

- 1 Specimen of Calcite from Cumberland, Eng.  
3 " " Calcite from South Dakota.  
1 " " Calcite from Joplin, Mo.  
2 " " Fluorite from Northumberland, Eng.  
2 " " Fluorite from Cheshire Co., N. H.  
1 " " Fluorite from Put-in-Bay, Lake Erie.  
1 " " Fluorite from Cumberland, Eng.  
4 " " Barite from Cumberland, Eng.  
1 " " Barite from Pictou Co., N. S.  
1 " " Epidote from Ouray Co., Cal.  
1 " " Calamine from Joplin, Mo.  
1 " " Hematite from Santa Fé, N. M.  
1 " " Adularia from Switzerland.

- 1 Specimen of Obsidian from Lipari Island, Italy.
- 1 " " Opal from Waterville, Wash.
- 1 " " Celestite from Sicily.
- 1 " " Smithsonite from Greece.
- 1 " " Wurtzilite from Utah.
- 1 " " Molybdenite from Quebec, Canada.
- 1 " " Aragonite from Sicily.
- 1 " " Colemanite from San Bernardino Co., Cal.
- 1 " " Selenite from Sicily.
- 1 " " Zircon from Renfrew, Canada.
- 2 " " Quartz from Jefferson Co., Mont.
- 1 " " Meteorite (Siderolite) from Kiowa Co., Kansas.
- 15 " " Gold Nuggets from Klondike.
- 1 " " Garnet rock " Alaska.
- 13 " " Pseudomorphs from various localities.
- 1 Slab of Aragonite from Yavapai Co., Arizona.

## CONCHOLOGICAL DEPARTMENT.

### BY DONATION.

- DR. E. A. MEARNS, U. S. A., Newport, R. I.
- 3 Specimens of *Chenobia testudinaria*, Linn., from back of Logger Head Turtle at Newport, R. I.
- SOLOMAN ROUS, Jersey City, N. J.
- 1 Specimen of *Unio Pinci*, Wright, from Florida.
- 2 " " *Pleurotoma Rousi*, Swb., from Port Elizabeth, Algoa Bay.
- 2 Specimen of *Anodonta fluviatilis* from near Newark, N. J.
- TIFFANY & CO., New York City.
- 2 Large *Unio ligamentinus*, Lam.

### BY EXCHANGE.

- 1 Specimen of young *Cypræa caputserpentis*.
- 1 " " Shell Worm tube.
- 2 " " *Bulla aperta*.
- 17 " " *Fissurella*.
- 100 " " Chitons, all from Victoria.

## INVERTEBRATE ZOÖLOGY.

### BY DONATION.

- NEW YORK AQUARIUM.
- 1 Specimen of *Squilla*.
- 2 " " Bermuda Lobsters.
- BRUCE HORSFAL, New York City.
- 10 Specimens of *Apus* from the plains of central Texas.
- DR. GROSVENOR HUBBARD, New York City.
- A number of Cray-fish from near Rome, N. Y.

### BY EXCHANGE.

- 1 Specimen of *Astrophyton*.
- 1 " " *Asterias* (rare).
- 2 " " Crabs.
- 8 " " Ophiureans, all from Victoria.

## DEPARTMENT OF VERTEBRATE ZOOLOGY.

### MAMMALS.

#### BY DONATION.

- J. A. ALLEN, New York City.  
23 small mammals from Mexico and New Mexico.
- C. L. ANGELL, New York City.  
1 Angora Cat.
- E. K. AUSTEN, New York City.  
1 English Bulldog.
- WM. BEUTENMÜLLER, New York City.  
1 Bat.
- F. A. CANFIELD, Dover, N. J.  
1 Vicuña.
- MISS NANETTE COMSTOCK, New York City.  
1 Dog.
- JAMES M. CONSTABLE, New York City.  
1 Fox, 2 Lynxes, 1 young Moose, and 20 small mammals, from N. W. Territory, collected by A. J. Stone.
- MISS E. H. COTTEAL, New York City.  
Antelope horns, Sperm Whale's teeth, etc.
- DR. CARLTON C. CURTIS, New York City.  
1 Elk, 2 Pronghorn Antelopes.
- WARING L. DAWBORN, New York City.  
1 Weasel.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
15 Monkeys, 1 Lioness, 1 Leopard, 1 Ocelot, 1 Puma, 1 Wolf, 4 Foxes, 2 Seals, 1 Bear, 3 Raccoons, 1 Civet Cat, 1 Elk, 5 Deer, 1 Antelope, 1 Zebu, 6 Barbary Wild Sheep, 2 Nylghaus, 2 Houtias, 4 Opossums.—Total, 55 specimens, received in the flesh, from the Central Park Menagerie.
- MRS. JOHN M. DOW, New York City.  
44 small mammals, mostly from Arctic America.
- J. H. FLEMMING, Toronto, Canada.  
1 Mole, from New Westminster, B. C.
- CAPT. C. L. FURBUSH, M.D., U.S.A., Philippine Islands.  
4 skins of *Galeopithecus*.
- WINTHROP GARDINER, Gardiner's Island, N. Y.  
4 teeth of Sperm Whale.
- MRS. A. GOINE, New York City.  
1 Squirrel Monkey.
- A. C. GOULD, New York City.  
1 skin of "Sampson" Fox.
- W. W. GRANGER, New York City.  
1 Coyote, 1 skull of Horse.



JOHN S. HENNESSEY, New York City.

1 Squirrel.

DR. A. HRDLÍČKA, New York City.

1 skull of Goat, 1 skull of Deer.

MORRIS K. JESUP, New York City.

1 Polar Bear, 1 Seal skeleton, 3 Walrus skulls, and 5 pairs of Walrus tusks.

DR. B. LAUFER, Cologne, Germany.

1 skin of *Tamias*, 2 Bear skulls, 1 skin of *Histiophoca fasciata*; all from Siberia.

ARTHUR LEUTKE, New York City.

1 Gray Squirrel.

DR. EDGAR A. MEARNS, U.S.A., Fort Adams, Newport, R. I.

1 skin of Grizzly Bear.

FRANCIS C. NICHOLAS, New York City.

1 *Capromys*, from Jamaica, W. I.

N. Y. COLONIZATION SOCIETY, through R. G. S. McNeille.

1 Hippopotamus skeleton.

NEW YORK ZOÖLOGICAL SOCIETY.

1 Orang, 2 Marmosetts, 2 Monkeys, 2 Slow Lemurs, 1 Tiger, 1 Ocelot, 6 Lynxes, 2 Black Leopards, 2 Yaguarandi Cats, 1 Wolf, 2 Foxes, 1 St. Bernard Dog, 1 Mink, 2 Bears, 1 Seal, 1 Houtia, 2 Antelopes, 1 Equine Deer, 3 Moose, 1 Elk Fawn, 2 Fallow Deer, 1 Mule Deer, 1 Muntjack, 1 Caribou, 1 Ant Bear.—Total, 41 specimens, received in the flesh.

CAPT. WIRT ROBINSON, U.S.A., West Point, N. Y.

1 Wood Rat.

F. A. SCHNEIDER, New York City.

1 Mole, 1 Shrew, 6 Deer Mice, from Long Island, N. Y.

H. I. SMITH, New York City.

1 skull of Bear.

#### BY EXCHANGE.

52 specimens, mostly small mammals, including several rare species, from South America.

#### BY PURCHASE.

3 Gorilla skeletons, 1 skeleton each of Orang, Gibbon, Potto and Ornithorhynchus, 3 Roosevelt Elk, 231 small mammals from South America and Mexico, and 100 from Northwest Territory and Alaska. Museum Expedition: 77 small mammals from Nova Scotia.

### BIRDS.

#### BY DONATION.

C. M. BARBER, Mesilla Park, New Mexico.

2 Thick-billed Parrots.

FRANK BOWLES, New York City.

1 *Apteryx*, 1 *Stringops*, mounted.

ALFRED BRAKE, New South Wales, Australia.

1 Emu Egg.

- MRS. E. G. BRITTON, New York City.  
1 Blue-winged Yellow Warbler.
- F. F. BUDD, Pompton Plains, N. J.  
1 Great Blue Heron, in flesh.
- JOHN L. CADWALADER, New York City.  
1 hybrid Grouse, Red Grouse + Black Grouse. \*
- CARL CARTWELL, New York City.  
1 nest of Baltimore Oriole.
- MRS. C. W. CROSSMAN, Alexandria Bay, N. Y.  
1 Indigo Bird.
- MISS OCEE DEARBORN, New York City.  
1 mounted Mockingbird.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
1 Warbler, 1 Magpie, 1 Jay, 6 Parrots, 2 Cockatoos, 6 Macaws, 10 Eagles, 5 Hawks, 4 Owls, 2 Vultures, 2 Pheasants, 1 Peahen, 1 Curassow, 1 Gull, 1 Pelican, 13 Swans.—Total, 57 specimens, received in the flesh, from the Central Park Menagerie.
- WILLIAM DUTCHER, New York City.  
1 Brünnich's Murre, and 6 small Birds in flesh from Fire Island Light, N. Y.
- JOHN FANNIN, Victoria, B. C.  
2 Great Blue Herons.
- C. LINCOLN FREE, Easton, Pa.  
2 Wood Ibises, 1 young Sand Hill Crane.
- WINTHROP GARDINER, Gardiner's Island, N. Y.  
Small collection of Birds' Eggs.
- J. RALSTON GRANT, New York City.  
1 Hummingbird.
- SIDNEY KATZ, New York City.  
1 Maryland Yellowthroat.
- JOSEPH KISSLER, Nyack, N. Y.  
1 Hawk.
- PHILIP LATOURETTE, New York City.  
1 mounted albino Red-tailed Hawk.
- DR. B. LAUFER, Cologne, Germany.  
3 Grebe skins from Siberia.
- ROBERT B. LAWRENCE, New York City.  
5 mounted Birds, mostly rare albinos.
- II. C. A. LEUTLOFF, New York City.  
1 Black and White Warbler, in melanistic plumage.
- DR. M. R. LEVERSON, Brooklyn, N. Y.  
3 young European Cuckoos.
- HENRY MEYN, Jamaica, N. Y.  
1 four-legged Chicken, in alcohol.
- DR. J. E. MISSENGER, New York City.  
1 Parrot.
- MOTHER SUPERIOR S. A. B. V. M., New York City.  
1 nest of Baltimore Oriole.
- NEW YORK ZOOLOGICAL SOCIETY.  
1 Pigeon, 1 Wood Ibis, 1 Swan, 1 Heron, 3 Flamingoes, 1 Demoiselle Crane.—Total, 8 specimens, received in the flesh.

- DR. H. V. OGDEN, Milwaukee, Wisconsin.  
1 Spoonbilled Sandpiper.
- IRA OTTENBERG, New York City.  
1 Albatross skull.
- W. H. PHELPS, New York City.  
300 Birds from Venezuela, containing several types of species.
- H. I. SMITH, New York City.  
2 Bird skulls.
- MRS. J. B. SNIFFEN, Greenwich, Conn.  
1 Baltimore Oriole.
- MRS. B. B. ST. JOHN, New York City.  
1 Paroquet.
- DAVID TOMLINSON, Yonkers, N. Y.  
1 Owl.
- JOHN TORRENCE, Brooklyn, N. Y.  
1 four-legged Chicken, in alcohol.
- ARTHUR T. WAYNE, Mount Pleasant, S. C.  
2 Marian's Wrens, 1 Acadian Sparrow, 1 Macgillivray's Sparrow.
- JOHN H. WINSER, New York City.  
1 South American Oriole.

BY PURCHASE.

130 specimens from Peru, 370 from Venezuela, and 87 from various North American localities.  
Museum Expedition: 52 small Birds from Nova Scotia.

FISHES AND REPTILES.

BY DONATION.

- M. BRAVERMAN, Visalia, Cal.  
Prepared skull of *Crotalus lucifer*.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
1 Alligator Gar, 1 Sturgeon, 2 Cat-fish, 1 Tobacco-pipe Fish, 1 Eel, 1 Cow-fish, 1 Trunk-fish, 1 Leopard-fish, 1 Moon-fish, 1 Parrot-fish.—Total, 11 specimens, received in the flesh from the New York Aquarium.
- H. GOLDSMITH, New York City.  
1 Lizard.
- DR. O. P. HAY, New York City.  
1 Turtle.
- H. V. LETKEMANN, New York City.  
1 Turtle.
- DR. JOSEPH Y. MANGOUN, New York City.  
1 Iguana, received in flesh.
- DR. EDGAR A. MEARNS, U.S.A., Fort Adams, Newport, R. I.  
1 Loggerhead Turtle, captured at Newport, R. I.
- NEW YORK ZOÖLOGICAL SOCIETY.  
3 Turtles, 1 Python, 1 Boa, received in the flesh.

- F. A. SCHNEIDER, New York City.  
 1 skeleton of Horned Toad, from Aurora, Wyoming.  
 DR. HUGO VON HAGEN, Lake Waccabuc, N. Y.  
 1 Boa Constrictor, skin.  
 E. ROBBINS WALKER, Lakewood, N. J.  
 1 Iguana, received in flesh.

## DEPARTMENT OF ENTOMOLOGY.

### DONATIONS AND ADDITIONS.

- VERY REV. E. A. HOFFMAN, D.D., LL.D., New York.  
 1,000 Butterflies from North and South America and Asia.  
 DR. EDWARD FLEMING, New York.  
 1 Hornet's nest from Squantuck, Conn.  
 E. CALMAN, New York.  
 Specimens of Larvæ infested with fungus, from New Zealand.  
 HENRY VAN HOEVENBERG, Newman, N. Y.  
 Specimen of wood destroyed by Ants.  
 E. D. HARRIS, New York.  
 4 *Cicindela albibrabris* from Maine, 4 *Cicindela purpurea* var. *limbalis* from Maine.  
 MISS W. H. MAILLER, New York.  
 Specimens of Caterpillars infested with fungus, from New Zealand.  
 DR. ROBERT M. FULLER, New York.  
 Nest of Trap-door Spider.  
 WM. F. SACHS, Hoboken, New Jersey.  
 A collection of Butterflies and Moths from various parts of the world.

### BY PURCHASE.

- 60 North American Moths.  
 Through Museum Expeditions: 3,000 specimens from the Black Mountains, N. C.  
 500 specimens from the vicinity of New York.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

### BY DONATION.

- March 19. EUGENE S. MIXSON, Williston, Florida.  
 Fossil teeth and fragments of bones of Mastodon, Rhinoceros, etc., from Pliocene bone-bed near Williston.  
 Oct. 19. A. QUINTAVAL, 34 Park Row, New York City.  
 Jaw and bones of Woodchuck, semi-fossil, found in a copper mine, Lincoln Co., Nevada.  
 Dec. 11. PROF. H. F. OSBORN, 850 Madison Avenue, New York City.  
 Mammoth tooth from Krasnojarsk, Siberia.  
 Dec. 19. D. W. PAYNE, Elmira, N. Y.  
 Part of mammoth tooth from river-gravels at Elmira, N. Y.

BY EXCHANGE.

- April 15. KÖNIGLICH NATURHIST. KABINET, Stuttgart, Germany,  
through Dr. Eberhard Fraas, Director.  
Casts of skull and various limb bones and plates of extinct  
Crocodilian Belodon.
- Oct. 31. BIOLOGICAL DEPARTMENT, UNIVERSITY OF  
TORONTO, Canada, through Prof. Ramsay Wright.  
Mounted skeleton of *Varanus niloticus*.

BY PURCHASE.

- March. Skulls of four Oligocene mammals from the White River Badlands of  
South Dakota.  
Skeleton of marine lizard *Clidastes* from Cretaceous chalk of Kansas.

THROUGH MUSEUM EXPEDITIONS.

- IN PATAGONIA, under Barnum Brown.  
Collection of Fossil Mammals, etc., from the Santa Cruz formation,  
including numerous skulls and incomplete skeletons.
- IN SOUTH DAKOTA, under Barnum Brown.  
Nearly complete skeleton of a Duck-billed Dinosaur, incomplete skele-  
ton of a Carnivorous Dinosaur, and other specimens from the  
Upper Cretaceous strata of western South Dakota.
- IN SOUTH DAKOTA, under G. R. Wieland.  
Parts of the skeletons of two herbivorous Dinosaurs from the Jurassic  
strata of South Dakota.
- IN WYOMING, under Walter Granger.  
One hundred and thirty-one specimens of Dinosaurs and Crocodiles  
from the Upper Jurassic strata of eastern Wyoming.
- IN TEXAS, under J. W. Gidley.  
Fifteen specimens of fossil mastodons, horses and camels from the  
Tertiary strata of the Staked Plains of Texas.

DEPARTMENT OF ANTHROPOLOGY.

BY DONATION.

- DUKE OF LOUBAT, Paris.  
Collection of pottery vessels and stone implements from Imbabura,  
Ecuador; fourteen gold ornaments from Colombia and Ecuador;  
a collection of various objects from Mexico, including ethnological  
and archaeological material; a copy of mural paintings from Teoti-  
huacan; models of antiquities; and a false Maya codex.
- ANONYMOUS.  
Clothing of an Eskimo of Smith Sound.
- LIEUT. G. T. EMMONS, Princeton, N. J.  
Harpoon foreshafts and rests, knife-handles and knives, etc., from  
Point Barrow, Alaska.
- JAMES DOUGLAS, Spuyten Duyvil, N. Y.  
A Mendocino basket in course of construction, and an Apache basket.
- MANDEVILLE MOWER, New York City.  
Various Indian specimens collected in 1830 and 1850, including turtle-  
shell rattle, moccasins, birch-bark baskets, beaded bag.

MRS. JOHN CROSEY BROWN.

2 native fish-hooks with lines, from Vancouver Island.

PROFESSOR H. F. OSBORN, New York City.

Platter made of whale vertebra, ornamented with copper, from Sitka, Alaska.

PROFESSOR A. V. WILLIAMS-JACKSON, New York City.

2 Blackfoot skulls collected by Audubon.

ROBERT H. LAMBORN ESTATE.

737 specimens, including objects in clay, stone, bone, shell, and copper, among which are a number of specimens from Mexico, and archaeological specimens from localities in the United States.

MISS E. H. COTHEAL, New York City.

Ethnological specimens collected among the Sioux Indians in 1838, and various ethnological specimens from North America and foreign countries, also archaeological specimens from Costa Rica.

COL. ARCHIBALD ROGERS, Hyde Park, N. Y.

A very large Navajo blanket.

AMERICAN ETHNOLOGICAL SOCIETY, New York. (As a permanent deposit.)

Archæological specimens from Central America and Europe.

B. F. ZOGBAUM, New Rochelle, N. Y.

Facsimile of the treaty between the Sultan of Sulu and Brig.-Gen. Bates, U. S. Volunteers, 1899, in Malay language expressed in Arabic characters.

MR. ROGERS, Mooretown, Cal.

A stone mortar from California.

ERNEST SCHERNIKOW, New York City.

Stone seat from Costa Rica.

MRS. C. EMERY, New York City.

Feather cape and feather fringe from South America.

CLARENCE B. MOORE, Philadelphia.

A collection of perforated shell implements used as tools, from west coast of Florida.

DR. ROLAND STEINER, Grovetown, Ga.

2 basket fish-traps made by old negroes on coast of Georgia (supposed to be an African survival).

J. DORENBERG, Leipzig, Germany.

Photographs of different Mexican antiquities.

R. A. IMBERT, Santa Domingo.

Terra-cotta head found at Isabela, San Domingo.

JOHN WISMANN, Brooklyn, N. Y.

4 arrow-heads from Montgomery County, Penn.

PROFESSOR ALBERT S. BICKMORE, New York City.

Silver chain made by natives of Madagascar.

JOHN JEROLAMAN, New York City.

Carved stone disk from Charapan, Mexico.

RICHARD ALLEN MARTIN, New York City.

Basket made by Cape Flattery Indians.

J. C. HEALD, Nashville, Cal.

A long Maidu pestle.

- J. W. HORNOR, New York City.  
11 pairs of shoes and 9 hats from eastern Asia.
- T. JAY BUFORD, Siletz, Ore.  
A very old copper sword.
- Miss GRACE STUART REID, New York City.  
A book of botanical specimens and a piece of fancy-work from Bulgaria. (Gift to the Missionary exhibit.)
- FROM A FRIEND.  
Archæological specimens from New York State and New Jersey, collected by M. R. Harrington; and specimens from an ancient turquoise mine in New Mexico.
- A. H. REMSEN, Locust Valley, L. I., N. Y.  
Stone axe and several stone arrow-heads, and a pitted discoidal stone from Long Island.
- DR. F. E. HYDE, New York City.  
An Omaha skin tent and poles.
- J. H. AND ROBERT QUIMBY, New York City.  
Archæological specimens from Pelham Park and Armonk, N. Y.
- THE ECUMENICAL CONFERENCE (by transfer to the Museum).  
The large collection illustrating the life and customs of native peoples of China, India, Japan, Korea, Formosa, Africa, Madagascar, Sweden, Holland, Great Britain, Guatemala, Nicaragua, South America, and Alaska. Collected by many missionaries.
- LOUIS M. BONNEFOI, New York City.  
Leather moccasin from Cuba.
- H. W. BACHMAN, New York City.  
Bow and quiver of arrows that belonged to a Mescalero Apache. Collected in 1865.
- JOHN NEAFIE, New York City.  
Miscellaneous collection of archæological specimens from New York State.
- Miss S. D. DOREMUS, New York City.  
Ethnological specimens from China, Japan, Burma, South Sea Islands.
- CAPT. WILLIS WITTICH.  
Bark mat made by Cape Flattery Indians.
- MRS. F. N. DOUBLEDAY.  
Bird-skin pouch from Alaska.
- GEORGE N. MAYNARD.  
Coat of chain mail ploughed up in valley of Black River, near Coventry, Vt., in 1826-27; bow and arrows, bow-case and quiver from Sioux; Nez Percés field-glass, case ornamented with bead-work; moccasins from British Columbia; Indian belt, Japanese bow and arrows.
- MRS. HARRIET MAXWELL CONVERSE, New York.  
80 ancient potsherds and a stone knife from Cattaraugus Indian reservation.
- MRS. H. J. NEWTON, New York.  
Plaster cast of a stone sculpture from Ohio.

## FROM MUSEUM EXPEDITIONS.

## JESUP NORTH PACIFIC EXPEDITION. Provided for by Morris K. Jesup.

Specimens illustrating industries, customs, and beliefs of Amoor tribes, Siberia. Collected by Dr. Berthold Laufer.

Archæological specimens from the Amoor district, Siberia. Collected by Gerard Fowke.

Plaster casts from Nanaimo, B. C., also 2 totem-poles from British Columbia, and 2 canoes from State of Washington. Collected by Harlan I. Smith.

Ethnological and archæological specimens from Thompson River region, British Columbia. Collected by James Teit.

Four house posts and back of seat from Vancouver, B. C. Collected by George Hunt.

A wooden figure from Seattle, Washington. Collected by M. R. Harrington.

Ethnological collection from the Indians of Vancouver Island. Collected by Franz Boas and George Hunt.

Ethnological collection from the Indians of the State of Washington. Collected by Livingston Farrand.

## NORTH AMERICAN INDIAN RESEARCH.

## C. P. HUNTINGTON EXPEDITION.

Collection of California basketry, made by Roland B. Dixon.

## MRS. MORRIS K. JESUP EXPEDITION.

Specimens illustrating the industries, ceremonies, and art of the Arapaho, Shoshone, Bannock, Ute, and Kootenay Indians. Collected by Alfred L. Kroeber.

## HENRY VILLARD EXPEDITION.

Ethnological collection from Indians in Oregon. Collected by Livingston Farrand.

## MEXICAN EXPEDITION. Contributions of Duke of Loubat and James M. Constable.

Collection from the exploration of ruins and tombs in the State of Oaxaca. Ethnological specimens from several places in Mexico, and an ancient Mexican Map. Collected by M. H. Saville.

## DR. F. E. HYDE.

Archæological collections received from explorations at Trenton, N. J., including negatives and photographs. Collected by Ernest Volk.

## B. T. B. AND F. E. HYDE, JR., EXPEDITION.

80 plaster casts, over 500 negatives, records of measurements of over 900 Zuñi, Moki, and other Pueblo Indians; also skeletons, and various objects found with them; and a number of articles to be used in ethnic groups. A collection made several years ago from the cliff-houses, Mancos Cañon, by purchase.

## PERUVIAN EXPEDITION.

A large collection of trephined skulls, and archæological specimens from explorations at Sicasica and other places in the vicinity of Lake Titicaca, Bolivia. Collected by A. F. Bandelier.

## EXPLORATIONS IN COLOMBIA AND COSTA RICA.

Archæological specimens from an ancient burial-place in northeastern Colombia, and a collection illustrating the burial ceremony of the Indians of Costa Rica. Collected by Francis C. Nicholas.

## EXPLORATIONS IN NEW YORK STATE.

Collections from ancient village sites and burial-places at Port Washington, L. I., and West Chester, N. Y. Collected by M. R. Harrington.



BY EXCHANGE.

JOHN B. PINE, New York City.

An Iroquois wampum war ransom string.

U. S. NATIONAL MUSEUM, Washington, D. C.

7 plaster casts of stone and whalebone clubs from Washington and Alaska.

FIELD COLUMBIAN MUSEUM, Chicago, Ill.

15 plaster casts of West Coast Indians.

LIEUT. G. T. EMMONS, Princeton, N. J.

Stone spoon and jade nose-ornament from Alaska.

E. L. PRIOR, New York.

A canoe and a native hat from Malay Archipelago.

BY PURCHASE.

A "doctor's" outfit (21 pieces) from Alaska.

A collection illustrating the life of Eskimo of Cumberland Sound.

Ethnological collection from Africa.

Specimens of Iroquois silver work.

2 lots of archæological specimens from Costa Rica.

A Sioux shirt.

2 trephined skulls and one other skull from Urcos, Upper Peru, and a pottery jar from Chala, coast of Peru.

34 pottery vessels, pipes, celts, shell ornaments, etc., collected from Indian graves at Gypsum, Texas.

A bark-cloth garment of a chief of the Chibasha tribe, Napo, Ecuador; also feather head-dress and feather fan, from Brazil.

The Gibbs archæological collection, including a wooden stool from a cave and a "jade" axe and handle, from Turk's Island, West Indies.

2 pipes, a stone tube and a turtle-shell rattle from New York State (Iroquois).

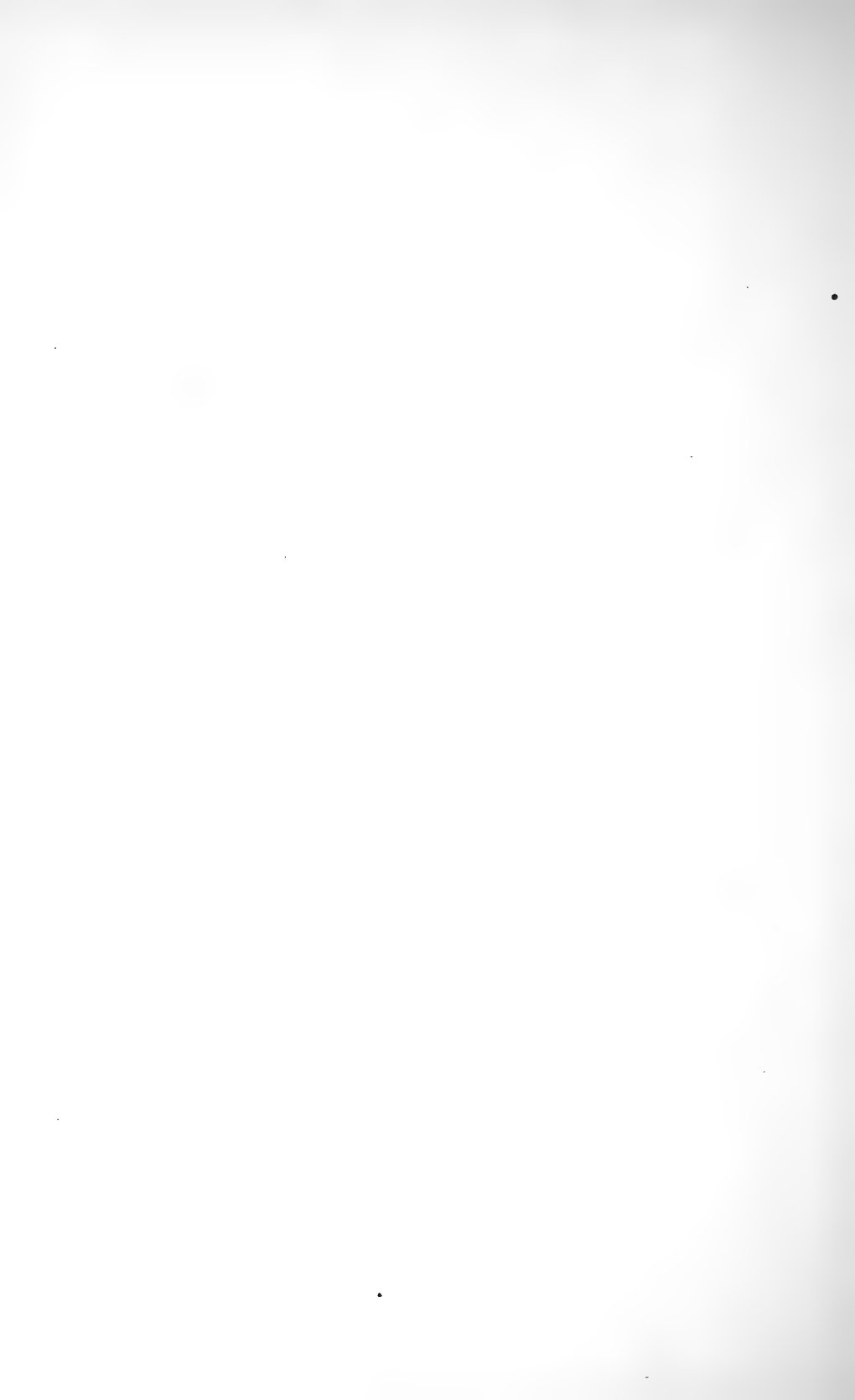
Thirty-five prints from negatives of N. M. Indians.

Ethnological specimens from the Blackfeet Indians.

Gold, jade and stone beads, gold and copper bells, and obsidian flakes, from Nicaragua.

A portion of the Gen. Satterlee collection of fish-spears, bows and arrows, clubs, baskets, etc., from South Sea Islands, New Zealand and other places.

The Stahl collection of stone yokes, sculptured stones, celts, and other objects in stone and pottery, from Puerto Rico.



# INCORPORATION.

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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*The People of the State of New York, represented in Senate and Assembly, do enact as follows:*

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Charles A. Dana, Joseph H. Choate, and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction and recreation.

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension, and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named

in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase, or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.<sup>1</sup>

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes.

SEC. 5. This Act shall take effect immediately.

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STATE OF NEW YORK,                    }  
OFFICE OF THE SECRETARY OF STATE. } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. S.]                                   Given under my hand and seal of Office at the City of Albany,  
  this fourteenth day of April, in the year one thousand eight  
  hundred and sixty-nine.

D. WILLERS, Jr., *Deputy Secretary of State.*

<sup>1</sup> As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

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ARTICLE I.

This Corporation shall be styled the AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II.

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, shall be the Trustees to manage the affairs, property, and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees ; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled ; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever

requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

#### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, and a Treasurer, all to be elected from the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee, and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

#### ARTICLE V.

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The office of Secretary and of Assistant Treasurer may be held by the same person.

#### ARTICLE VI.

The Executive Committee shall consist of nine, of whom the President, First and Second Vice-Presidents, and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four, and five years, respectively, and the terms for which those drawing the two, three, four, and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property of the Museum; and shall have power to purchase, sell, and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two

thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also have the books of the Museum duly audited at least once in six months by an authorized public accountant to be selected by them.

#### ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name and to take all proper measures to provide means for its support ; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

#### ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

#### ARTICLE X.

The President shall be a member, *ex-officio*, of all standing committees.

#### ARTICLE XI.

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact



current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

#### ARTICLE XII.

By-Laws may from time to time be made by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

#### ARTICLE XIII.

The contribution of \$1000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

#### ARTICLE XIV.

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

## ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees ; or at a special meeting called for this purpose, nor by the votes of less than a majority of all the Trustees ; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

Patrons, giving \$1000, are each entitled to one Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket, and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket, and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

### III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

## IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

## V.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

## VI.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

## VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VIII.

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.

## PATRONS.

MORRIS K. JESUP.  
 ROBERT L. STUART.\*  
 Miss C. L. WOLFE.\*  
 ROBERT COLGATE.\*  
 FREDERIC W. STEVENS.  
 PERCY R. PYNE.\*  
 JAMES M. CONSTABLE.\*  
 JOHN B. TREVOR.\*  
 ADRIAN ISELIN.  
 HUGH AUCHINCLOSS.\*  
 JOSEPH W. DREXEL.\*  
 WILLIAM E. DODGE.\*  
 JOHN D. WOLFE.\*  
 ABRAM S. HEWITT.  
 C. VANDERBILT.\*  
 J. PIERPONT MORGAN.  
 CHARLES LANIER.  
 D. JACKSON STEWARD.\*  
 EDWARD CLARK.\*  
 A. G. PHELPS DODGE.  
 JAMES BROWN.\*  
 A. T. STEWART.\*  
 S. WHITNEY PHŒNIX.\*  
 BENJAMIN H. FIELD.\*  
 WILLIAM T. BLODGETT.\*  
 OLIVER HARRIMAN.  
 ROBERT BONNER.\*  
 JAMES B. COLGATE.  
 ALEXANDER STUART.\*  
 WILLIAM A. HAINES.\*  
 BENJAMIN AYMAR.\*  
 RICHARD ARNOLD.\*  
 JOSEPH H. CHOATE.  
 JONATHAN THORNE.\*  
 Miss PHEBE ANNA THORNE.  
 D. O. MILLS.  
 JOHN A. C. GRAY.\*  
 HEBER R. BISHOP.  
 CHAS. G. LANDON.\*  
 WILLIAM E. DODGE.  
 PETER COOPER.\*  
 WILLIAM H. ASPINWALL.\*

B. H. HUTTON.\*  
 J. TAYLOR JOHNSTON.\*  
 D. N. BARNEY.\*  
 I. N. PHELPS.\*  
 JAMES STOKES.\*  
 D. WILLIS JAMES.  
 EDWARD MATTHEWS.  
 WILLIAM T. GARNER.\*  
 JAMES LENOX.\*  
 A. H. BARNEY.\*  
 COLEMAN T. ROBINSON.\*  
 BENJAMIN B. SHERMAN.\*  
 JAMES R. ELY.  
 JONAS G. CLARK.\*  
 JOHN ANDERSON.\*  
 JOHN JACOB ASTOR.\*  
 WILLIAM WALDORF ASTOR.  
 CATHERINE L. SPENCER.\*  
 JAS. GORDON BENNETT.  
 CYRUS W. FIELD.\*  
 ALEX. H. BROWN, M.P.  
 J. A. BOSTWICK.\*  
 FREDERICK BILLINGS.\*  
 Mrs. ROBERT L. STUART.\*  
 JESSE SELIGMAN.\*  
 THEO. ROOSEVELT.  
 OSWALD OTTENDORFER.\*  
 J. HAMPDEN ROBB.  
 J. F. LOUBAT.  
 H. J. JEWETT.\*  
 WM. D. SLOANE.  
 D. G. ELLIOT.  
 LIEUT. G. T. EMMONS, U.S.N.  
 C. P. HUNTINGTON.\*  
 GEO. W. VANDERBILT.  
 EDWARD D. ADAMS.  
 WILLIAM C. SCHERMERHORN.  
 JOHN J. CROOKE.  
 HENRY SELIGMAN.  
 RICHARD T. WILSON.  
 JOHN E. PARSONS.  
 FRANCIS O. MATTHIESSEN.

\* Deceased.

A. J. FORBES-LEITH.  
 GEORGE BLISS.\*  
 M. C. D. BORDEN.  
 ARCHIBALD ROGERS.  
 GEORGE C. COOPER.\*  
 MRS. M. SCHUYLER ELLIOT.  
 APPLETON STURGIS.\*  
 THEODORE A. HAVEMEYER.\*  
 WILLIAM C. WHITNEY.  
 GEORGE G. HAVEN.  
 JAMES BAKER SMITH\*.  
 CYRUS W. FIELD, JR.\*  
 JAMES ANGUS.  
 HENRY VILLARD.\*  
 DR. WM. PEPPER.\*  
 AUSTIN CORBIN.\*  
 ANSON W. HARD.  
 GUSTAV E. KISSEL.  
 ELBRIDGE T. GERRY.  
 DR. EDGAR A. MEARNS, U.S.A.  
 JOHN D. CRIMMINS.  
 MRS. WM. H. OSBORN.  
 HENRY FAIRFIELD OSBORN.  
 JONATHAN THORNE.  
 VICTOR CORSE THORNE.  
 EDWIN THORNE.

JOEL WOLFE THORNE.  
 W. M. DONGAN DE PEYSTER.  
 HICKS ARNOLD.  
 J. PIERPONT MORGAN, JR.  
 WM. CHURCH OSBORN.  
 ALEXANDER I. COTHEAL.\*  
 WM. ROCKEFELLER.  
 B. TALBOT B. HYDE.  
 FREDERICK E. HYDE, JR.  
 L. P. DI CESNOLA.  
 GEORGE DEXTER BRADFORD.\*  
 HENRY O. HAVEMEYER.  
 A. D. JUILLIARD.  
 DR. FREDERICK E. HYDE.  
 MRS. JOHN B. TREVOR.  
 WM. SCHAUS.  
 JOHN B. MARCOU.  
 PHILLIPE MARCOU.  
 GEORGE T. BLISS.  
 GEORGE A. HEARN.  
 MRS. MORRIS K. JESUP.  
 DR. ELIZABETH M. STURGIS.  
 FREDERICK A. CONSTABLE.  
 CHARLES M. JESUP.  
 PERCY R. PYNE.  
 EDWIN H. WEATHERBEE.

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## FELLOWS.

SAMUEL WILLETS.\*  
 ROBERT GORDON.  
 HOWARD POTTER.\*  
 C. V. S. ROOSEVELT.\*  
 CHARLES W. GRISWOLD.\*  
 SAMUEL F. B. MORSE.\*  
 RUTHERFORD STUYVESANT.  
 MEREDITH HOWLAND.\*  
 MARSHALL O. ROBERTS.\*  
 JOHN ALSTYNE.\*  
 O. B. POTTER.\*  
 HON. LEVI P. MORTON.  
 HANSON K. CORNING.\*  
 STEWART BROWN.\*

ABRAM DUBOIS.\*  
 TIFFANY & CO.  
 LUCIUS TUCKERMAN.  
 ALFRED B. DARLING.\*  
 A. A. LOW.\*  
 RICHARD MORTIMER, JR.  
 THOS. A. VYSE, JR.  
 GEORGE G. GRAY.\*  
 GOUVERNEUR KEMBLE.\*  
 SAMUEL HAWK.\*  
 JOHN SNEDEN.\*  
 GEORGE BLISS.\*  
 R. A. WITTHAUS, M.D.  
 THOMAS BARON.\*

\* Deceased.

GEORGE W. CASS.\*  
 CHARLES W. CASS.\*  
 H. M. SCHIEFFELIN.\*  
 WM. LIBBEY, JR.  
 ROBERT LENOX KENNEDY.\*  
 F. R. HALSEY.  
 CYRUS W. FIELD, JR.\*  
 H. M. FLAGLER.  
 D. B. IVISON.  
 H. McK. TWOMBLY.  
 HENRY G. MARQUAND.  
 JOHN T. TERRY.  
 JOSIAH M. FISKE.\*  
 ELLIOTT F. SHEPARD.\*  
 JOHN SLOANE.  
 JOHN D. ROCKEFELLER.  
 PHILLIPS PHENIX.  
 LLOYD PHOENIX.

WM. H. HARBECK.\*  
 DAVID WOLFE BISHOP, JR.  
 CORTLANDT FIELD BISHOP.  
 WHEATON B. KUNHARDT.  
 SAMUEL P. AVERY.  
 JAMES H. JONES.  
 JAMES B. HAGGIN.  
 MRS. RICHARD P. DANA.  
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Chatillon, George H.	Cummings, Richard	Dodge, Miss Grace H.
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Einstein, I. D.	Gibney, V. P.	Havemeyer, J. C.
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Iselin, Wm. E.	Klenke, William H.	Lloyd, Robert McA.
	Knapp, H., M.D.	Lobenstine, W. C.
	Knower, Benj.	Lockman, Jacob K.

Lockman, John T.	McCurdy, Richard A.	Nichols, George L.
Loeb, S.	McDonald, John E.	Nichols, John W. T.
Loewi, Valentine	McIntyre, Ewen	Nisbet, William F.
Loewy, Benno	McKee, Russell W.	Nott, Frederick J.
Lord, Benjamin	McKibbin, Gilbert H.	Nourse, Jr., C. J.
Lord, Mrs. D. D.	McKim, Rev. Haslett, Jr.	
Louis, Chas. H.	McKim, W. Duncan, M.D.	Ogilvie, James H.
Lounsbury, R. P.	McLean, George H.	Olcott, E. E.
Low, C. Adolphe	Merrall, William J.	Olcott, F. P.
Ludington, C. H.	Metcalfe, John T., M.D.	Olmstead, Dwight H.
Ludlow, James B.	Meyer, Thomas C.	Olyphant, R. M.
Lueder, A.	Metz, Herman A.	Olyphant, Robert
Lummis, Wm.	Middleton, A. D.	Oppenheimer, Dr. H. S.
Lusk, Miss Anna H.	Mildeberger, Mrs. John	Otis, A. Walker
Luttgen, Wm.	Milholland, John E.	Owen, Miss Juliette A.
Lydig, David	Miller, D. S.	Owen, Mrs. Thomas J.
	Miller, Geo. Macculloch	Owens, Wm. W.
Macdougall, George R.	Milmine, George	O'Connor, Thomas D.
Mack, J. W.	Mitchell, Alfred	O'Rourke, John F.
Mackenzie, Duncan E.	Mitchell, Chas. E.	
Mackey, Oscar T.	Mitchell, Cornelius B.	Packard, Mrs. S. S.
Maclay, I. W.	Mitchell, Dr. H. W.	Paddock, Charles H.
Macy, George H.	Mitchell, John J.	Paddock, Eugene H.
Macy, I. Augustus	Mitchell, Miss Marg't E.	Palmer, Francis F.
Maitland, Robert L.	Moffat, George Barclay	Palmer, N. F.
Malcolm, W. L.	Moller, Peter, Jr.	Palmer, S. S.
Malin, H. E.	Moore, Francis C.	Park, Joseph
Man, William	Moore, Frederic P.	Parker, Forrest H.
Mansfield, Howard	Moore, Mrs. W. D.	Parish, Miss H.
Marc, Theophilus M.	Moore, W. H. H.	Parrish, James C.
Markle, John	Morewood, George B.	Parsell, Henry V.
Markoe, Dr. Thos. M.	Morgan, George H.	Parsons, Mrs. Edwin
Markoe, J. W.	Morris, Dr. Lewis R.	Parsons, W. H.
Marlor, Henry S.	Morris, Henry Lewis	Patterson, Edward
Marshall, Charles H.	Morris, Miss E. VanCorti'dt	Patterson, Miss C. H.
Martin, Mrs. John T.	Morris, Theo. Wilson	Peabody, Arthur J.
Martin, W. M.	Morrison, Edward A.	Peabody, George Foster
Mayer, Emil, M.D.	Morrison, George A.	Peck, Charles E.
McAlan, John	Moss, John H.	Pell, Frederick A.
McAlpin, C. W.	Mortimer, Dr. W. Golden	Pell, John H.
McAlpin, D. H.	Mote, Henry	Pellew, Henry E.
McAlpin, George L.	Muller, Carl	Penfold, Wm. Hall
McClintock, Emory		Penniman, George H.
McComb, J. Jennings	Navarro, Juan N.	Pentz, Frank R.
McCosh, Dr. A. J.	Nelson, Frank G.	Perkins, George W.
McCready, Mrs. C. A.	Nelson, Wm.	Perry, William A.

Peters, Edward McClure	Roberts, Miss Mary M.	Sellew, T. G.
Peters, Samuel T.	Robertson, Miss J.	Seton, William
Peters, W. R.	Robinson, Mrs. John A.	Shattuck, A. R.
Peterson, Frederick, M.D.	Rogers, Henry H.	Sherman, Charles A.
Peterson, Mrs. Wilson	Rogers, Noah C.	Sidenberg, Gustavus
Pfeiffer, Curt G.	Roosevelt, Charles H.	Sidenberg, Richard
Phillips, Guy	Roosevelt, Robert B.	Siegel, Jacob
Pickering, Henry G.	Roosevelt, W. Emlen	Simpson, John Boulton
Pickhardt, Carl	Root, Elihu	Simpson, John W.
Pine, John B.	Rothschild, J.	Sinclair, John
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Platt, Isaac S.	Rowland, George	Smillie, Charles F.
Platt, John R.	Runyon, Charles	Smith, Charles S.
Platt, Mrs. Emma H.	Ruprecht, Philip	Smith, Dr. George DeF.
Plympton, Gilbert M.	Russak, Jacob	Smith, Geo. W.
Pond, Warren		Smith, James Rufus
Poor, Mrs. Charles Lane	Sabin, Joseph P.	Smith, John Jewell
Porter, Eugene H., M.D.	Sackett, Mrs. W. H.	Smith, Rev. Cornelius B.
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Pryer, Charles	Sauter, Fred	Southworth, Edward W.
Purdy, Wm. Macneven	Schaefer, Edward C.	Spring, Miss Anna Riker
Putnam, George L.	Schafer, Samuel N.	Squibb, Edw. H., M.D.
Putnam, Mrs. Albert E.	Schafer, Simon	Stachelberg, Mrs. M.
Putney, W. B.	Schefer, Carl	Stanton, John
Pyle, Jas. Tolman	Scheitlin, Edward	Stanton, J. R.
	Schermerhorn, J. E.	Starin, John H.
Quinby, J. R.	Schernikow, Ernest	Starr, Howard White
Quintard, George W.	Schiff, Mortimer L.	Stearns, John Noble
	Schirmer, Gustave	Stearns, Louis
Rawson, Edward S.	Schley, Grant B.	Stebbins, Jas. H.
Raymond, Charles H.	Schnitzer, William M.	Steers, Henry
Read, Wm. A.	Schott, Charles M., Jr.	Steinway, Fred. T.
Rees, Norman I.	Schramm, Arnold	Stephens, Benjamin
Reilly, James	Schultze, John S.	Stern, Benjamin
Renwick, Edward S.	Schwab, L. Henry	Sternberger, Maurice M.
Rhineland, Chas. E.	Screven, John H.	Stewart, Lispenard
Rhoades, J. Harsen	Scribner, Mrs. J. Blair	Stewart, William R.
Richard, Auguste	Scudder, Hewlett	Stickney, J.
Riker, John L.	Scudder, Moses L.	Stiehl, Gustav H.
Riker, Samuel	See, Mrs. Horace	Stone, Edwin
Riker, Wm. J.	Seligman, George W.	Stone, Mason A.
Robbins, S. Howland	Seligman, Isaac N.	Stone, Mrs. Catherine C.
Robert, J. Eugene		



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| Stone, Mrs. Georgiana C. | Valentine, Mrs. Lawson  | Wetherill, Mrs. J. B.   |
| Stone, Sumner R.         | Valentine, Wm. A., M.D. | Wetmore, Dr. John McE.  |
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| Storm, George            | Van Brunt, Hon. C. H.   | Wheelock, Wm. A.        |
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| Sutherland, John L.      | Van Norden, Warner M.   | Whiting, Giles          |
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| Tailer, Edward N.        | Van Vleck, Joseph       | Wicke, William          |
| Taintor, Charles N.      | Van Winkle, Edgar B.    | Wickes, Edward A.       |
| Talcott, James           | Van Winkle, Miss E. S.  | Wickham, Delos O.       |
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| Tandy, Rev. P. W.        | Vermeule, John D.       | Williams, Richard H.    |
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| Taylor, Stevenson        |                         | Wilson, George          |
| Tefft, F. Griswold       | Wagner, Frederic C.     | Wilson, John            |
| Tefft, Wm. E.            | Walcott, A. S.          | Wilson, Washington      |
| Tesla, Nikola            | Wales, Salem H.         | Wing, John D.           |
| Thomas, T. G., M.D.      | Walker, Aldace F.       | Winthrop, Egerton L.    |
| Thomson, Giraud F.       | Walker, Mrs. Evan T.    | Witherbee, Frank S.     |
| Thomson, Mrs. Eugene     | Walker, William I.      | Wood, Mrs. Henry R.     |
| Thompson, L. S.          | Wallace, Lewis          | Woodward, F. F.         |
| Thompson, W. Prall       | Wallach, Antony         | Wolfe, Anzonetta B.     |
| Thorne, W. V. S.         | Warburg, F. M.          | Wolff, Emil             |
| Tierney, Myles           | Wardwell, Wm. T.        | Wormser, Isidor         |
| Tiffany, Louis C.        | Warner, Lucien C.       | Wray, Miss Cornelia S.  |
| Tiffany, Rev. C. C.      | Warren, John Hobart     | Wray, Miss Julia        |
| Tillinghast, W. H.       | Warren, Samuel D.       | Wright, Benjamin        |
| Titus, E., Jr.           | Waterbury, John I.      | Wright, Miss F. E.      |
| Toel, William            | Watson, Miss Emily A.   | Wurzbürger, A.          |
| Tonnellé, John L.        | Weatherbee, Mrs. E. H.  |                         |
| Toothe, William          | Webb, Mrs. W. H.        | Young, Edward L.        |
| Townsend, R. H. L.       | Weed, Benjamin          | Young, E. F. C.         |
| Townsend, R. W.          | Weed, Geo. E.           | Youmans, Ephraim M.     |
| Tracy, J. Evarts         | Weekes, John A.         |                         |
| Trevor, H. G.            | Wehrhane, Chas.         |                         |
| Turnure, George E.       | Welsh, S. Charles       | Zabriskie, Andrew C.    |
| Twombly, H. McK.         | Wertheim, H. P.         | Zickel, S.              |
|                          | Westcott, Robert E.     | Zinsser, Aug.           |
| Ullmann, E. S.           | Westinghouse, George    | Zinsser, Wm., Jr.       |
| Underhill, Jacob B.      | Weston, Edward          | Zollikoffer, O. F.      |

## DECEASED ANNUAL MEMBERS,

1900.

Bend, George H.	Foote, C. B.	Sennett, George B.
Beaman, Charles C.	Frankenberg, D.	Smith, Adon
Bernheimer, Simon	Frazee, William C.	Strong, William L.
Bissinger, Philip	Garland, James A.	Sutphen, John S.
Coster, C. H.	Higbie, William H.	Taintor, C. M.
Davison, C. A.	Koch, H. C. F.	Thomson, Eugene
Dickey, Mrs. Hugh T.	Sayre, Lewis A. M. D.	Vandervoort, W. L.
Dunlap, Robert	Schaeffer, Hermann	

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## In Memoriam.

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At an Adjourned Meeting of the Trustees of the American Museum of Natural History, held December 24, 1900, the President reported the death of Mr. OSWALD OTTENDORFER. The following minute was unanimously adopted and the Secretary was directed to present a copy of the same to the family of the deceased.

### **OSWALD OTTENDORFER,**

DIED IN THIS CITY, DECEMBER 15, 1900.

The Trustees of the American Museum of Natural History deem it fitting to give expression upon their records, as nearly as the capacity of language will permit, to their deep regret at the removal of their esteemed friend and associate.

His membership of the Board of Trustees of the Museum dates from the year 1886, and while he was deeply interested in forwarding its work, his serious illness in the later years compelled his absence at its assemblings.

The incidents of Mr. OTTENDORFER'S early life attest his devotion to the advancement of the best interests of the race.

Born in the little Austrian town of Zwittau he early entered upon the pursuit of liberal study, and while thus engaged the flames of a patriotic uprising in the cause of human liberty that burst forth in his native land enlisted his ardent sympathies and his personal prowess, involving great personal hardships, and at the risk of penalties, the rigors of which he narrowly escaped while they were enforced by the loss of life among his comrades in the great cause of liberty.

With these inspirations of early manhood he found his way to America, and ever afterwards was the warm and effective advocate of popular institutions, and with a characteristic breadth of vision whose horizon was above and beyond mere partisanship.

His large charities were cast in the direction of popular education, in the advancement of the interests of scientific investigation, in the elevation of art, and of thoughtful provision for the infirmities of age and for the alleviation of suffering without regard to race, sex, color or creed.

His native town became chiefly distinguished by being the place of his birth, and by his foundation there of an extensive free Public Library and a spacious Home for Orphans and for persons of advanced years.

In this, his adopted city, some years since, he founded a Public Library and a Medical Dispensary, and, at a situation commanding remarkable scenic attractions, he placed the Isabella Heimath, a home for aged men and women, with special departments for chronic invalids and for those convalescent.

In the administration of these varied benefactions, until within a few days of his last illness, he took a personal interest.

The conduct of the widely potential journal, over which he presided for more than forty years, commanded his like constant and personal supervision, always exercising, as it did under his direction, an influence intended to conserve the highest interests of the City, the State and Nation.

His numerous benefactions were of his own devising, and their establishment was brought about unheralded and with an unobtrusive modesty that was with him a marked characteristic.

In one capacity or another he was connected with many of the most prominent beneficent institutions of this city, and always with the most unselfish and generous zeal for the objects which they were established to promote.

It will be long before his place and his steadfast salutary influence as a citizen will be supplied.

His associates in the management of the Museum, from whose counsels he is forever withdrawn, now place among its permanent archives this all too brief record of their esteem, respect and affection for the memory of

**OSWALD OTTENDORFER.**





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